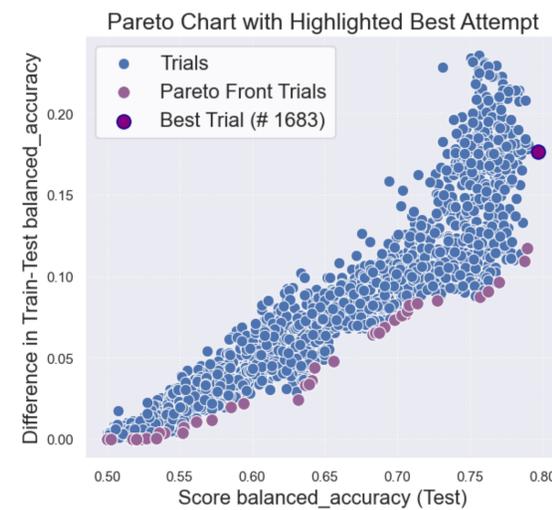
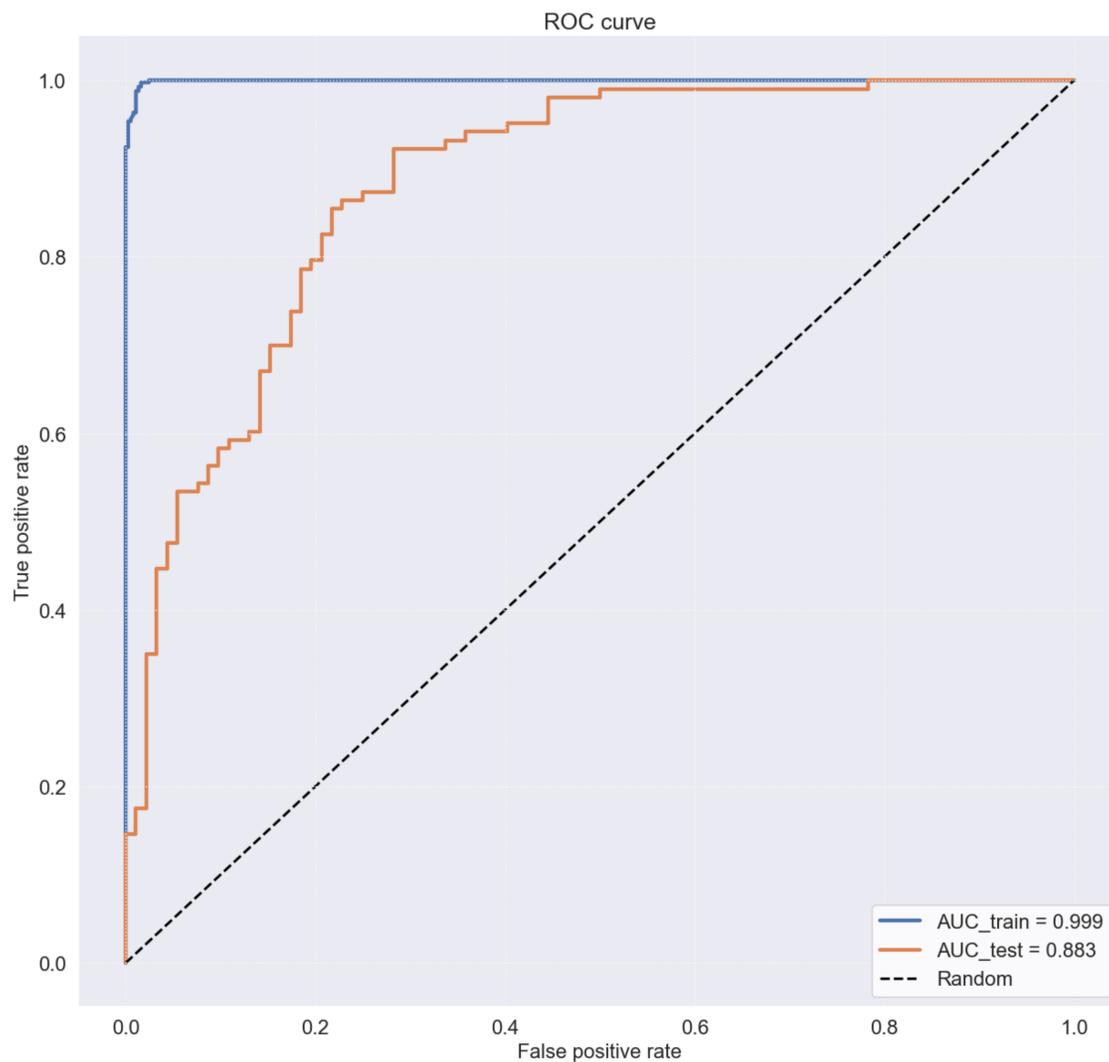
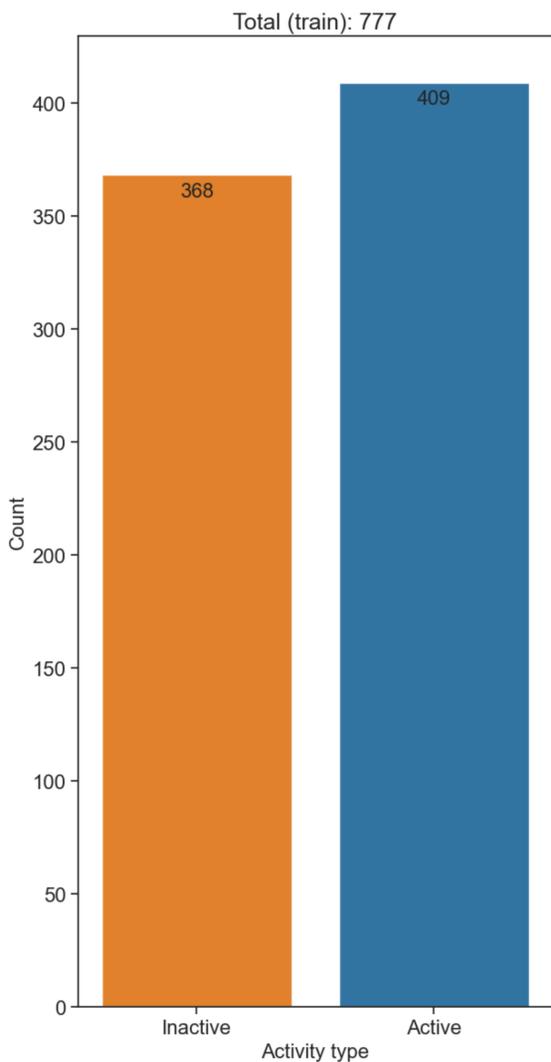
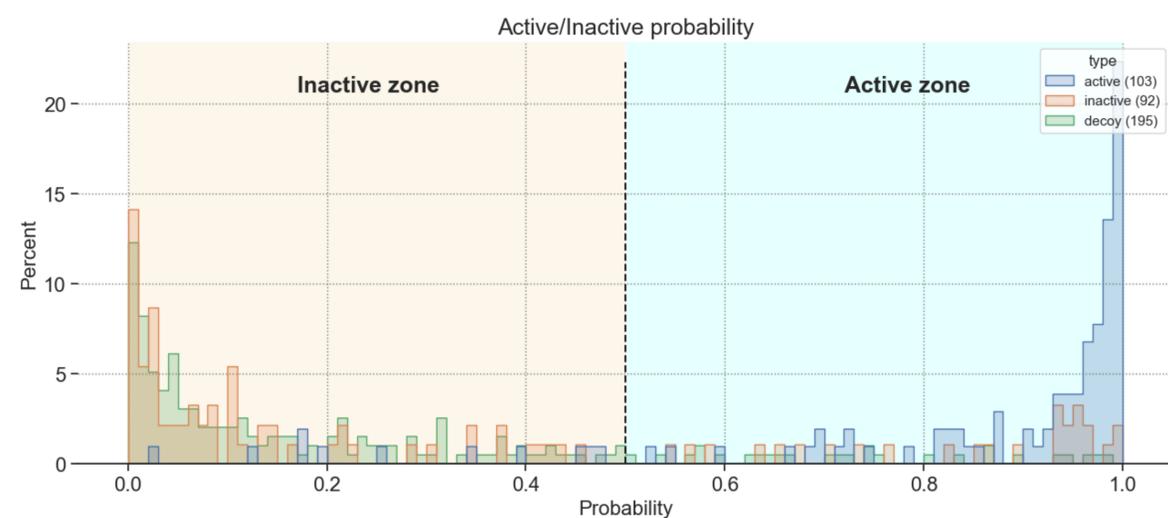
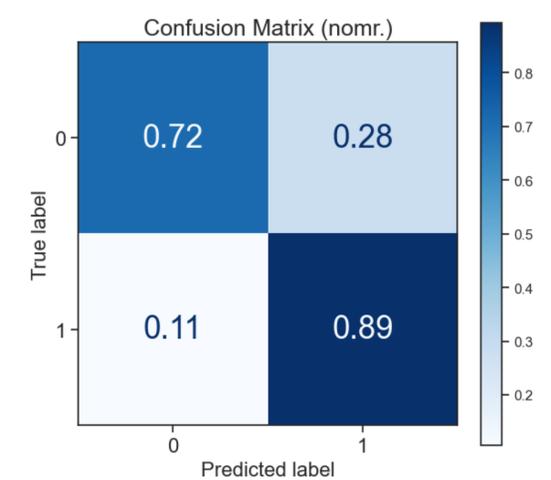
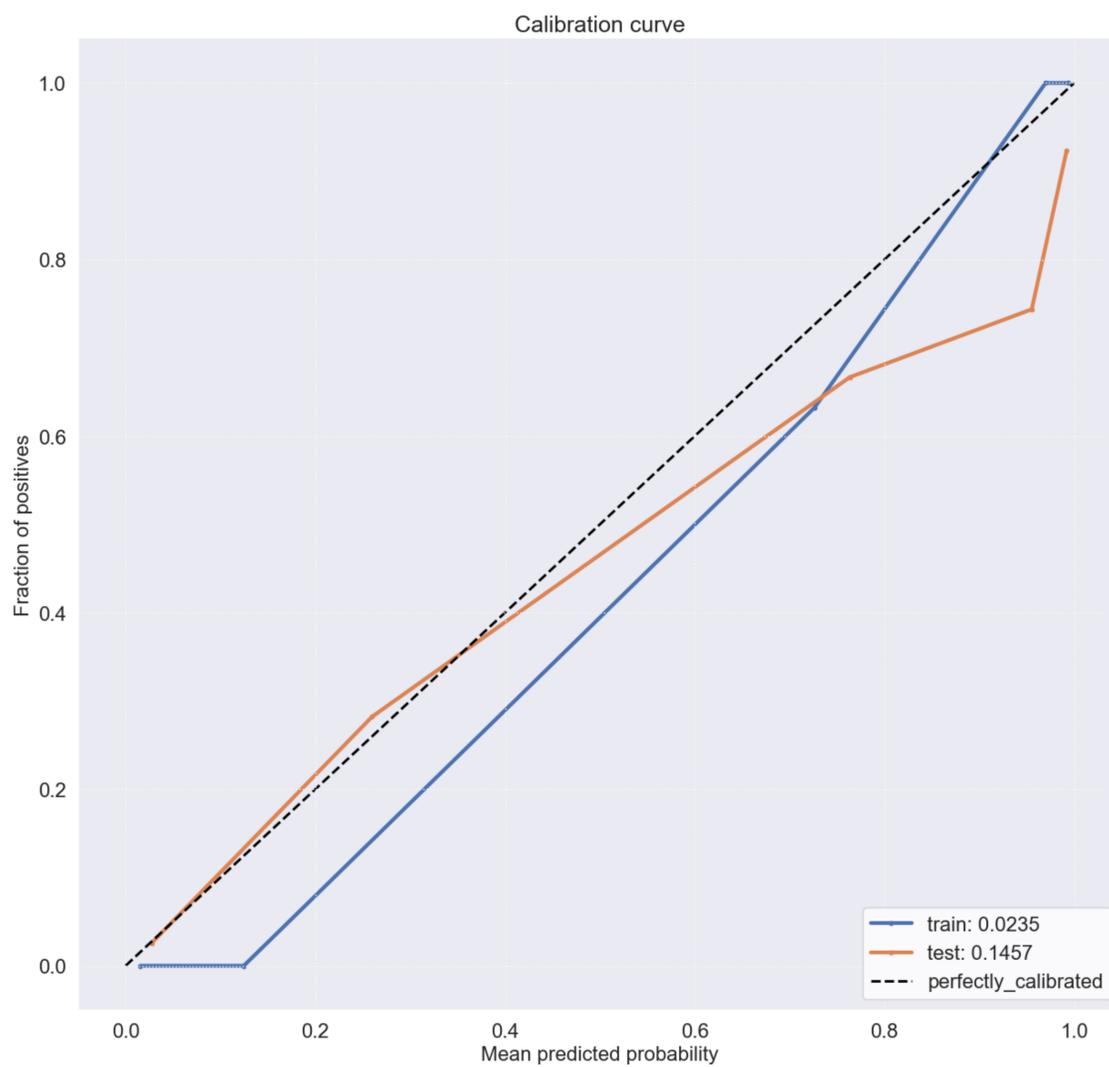
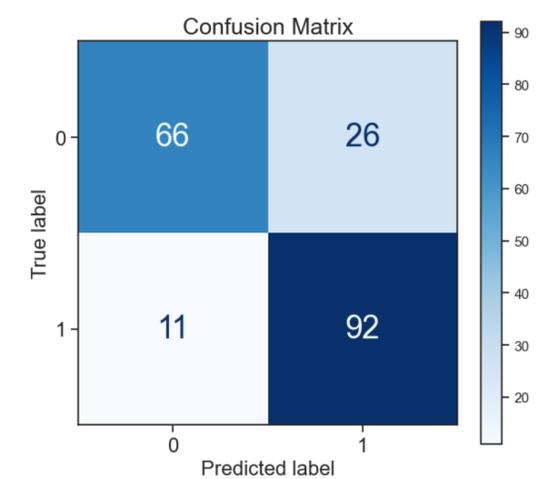


Protein: P10721 - metric: balanced_accuracy

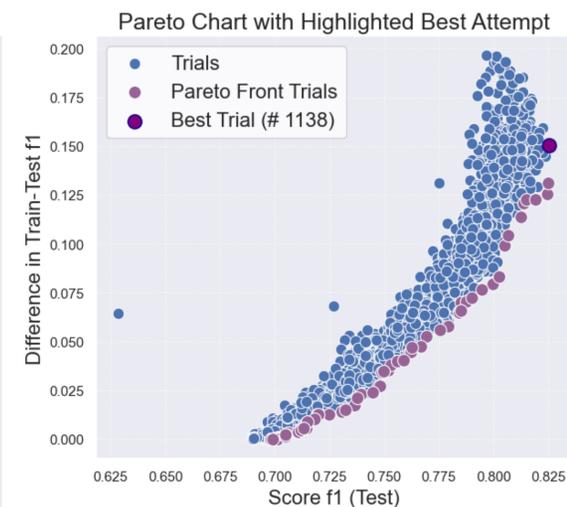
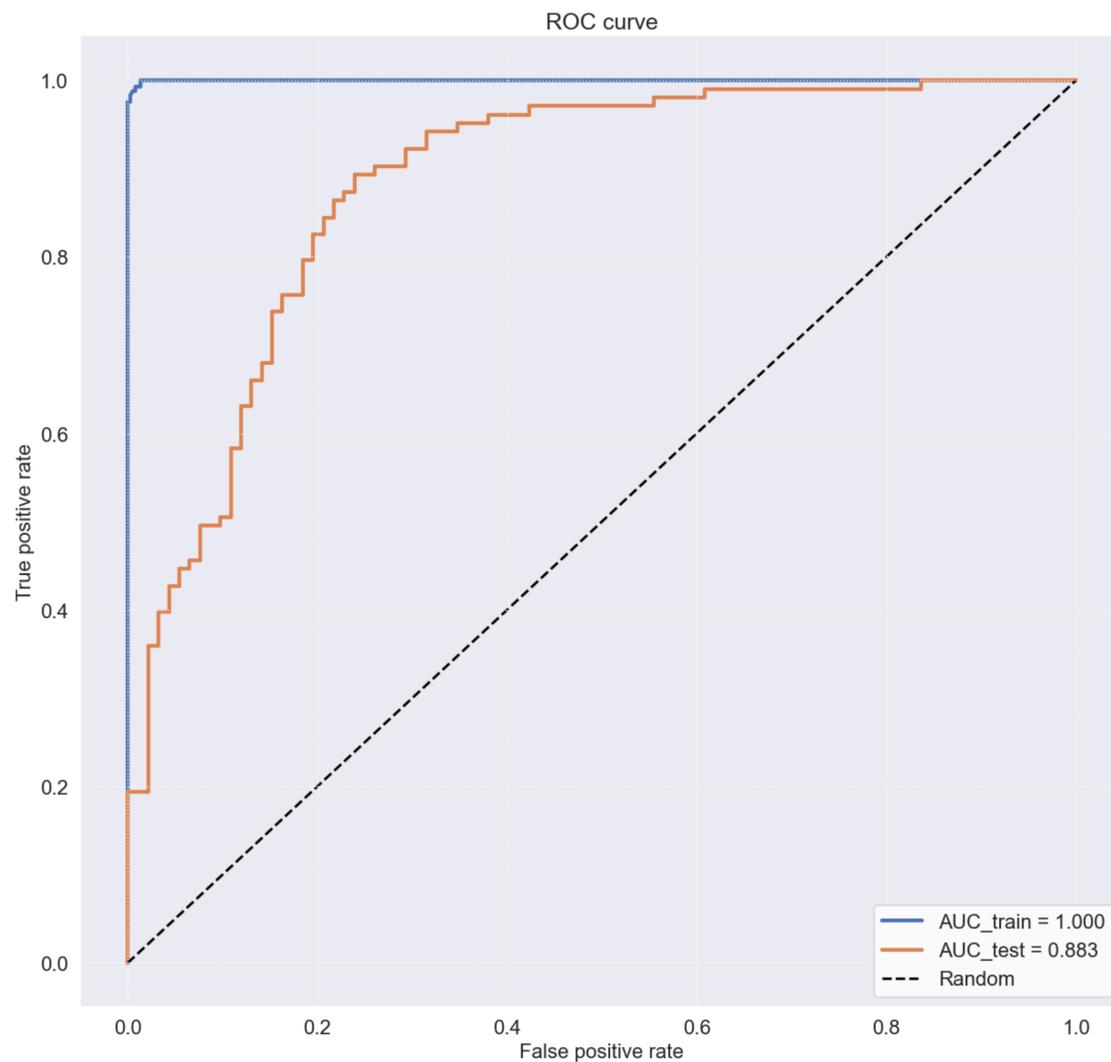
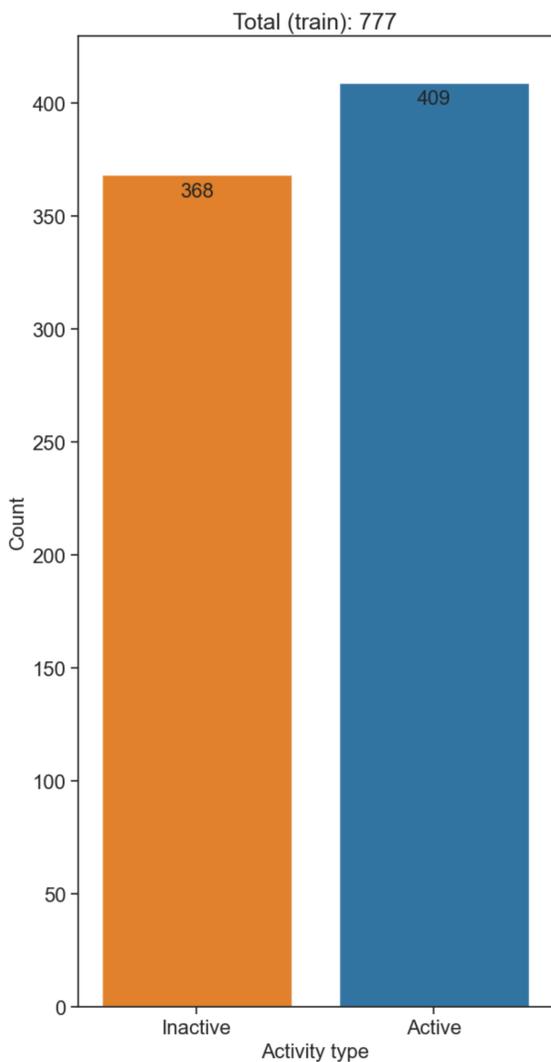


XGBoost Parameters	Value
alpha	3.2276
colsample_bytree	0.7826
gamma	0.5539
lambda	0.7981
learning_rate	0.0915
max_depth	6.0
min_child_weight	4.0
n_estimators	945.0
reg_alpha	0.4127
reg_lambda	0.2339
scale_pos_weight	2.8437
subsample	0.6777

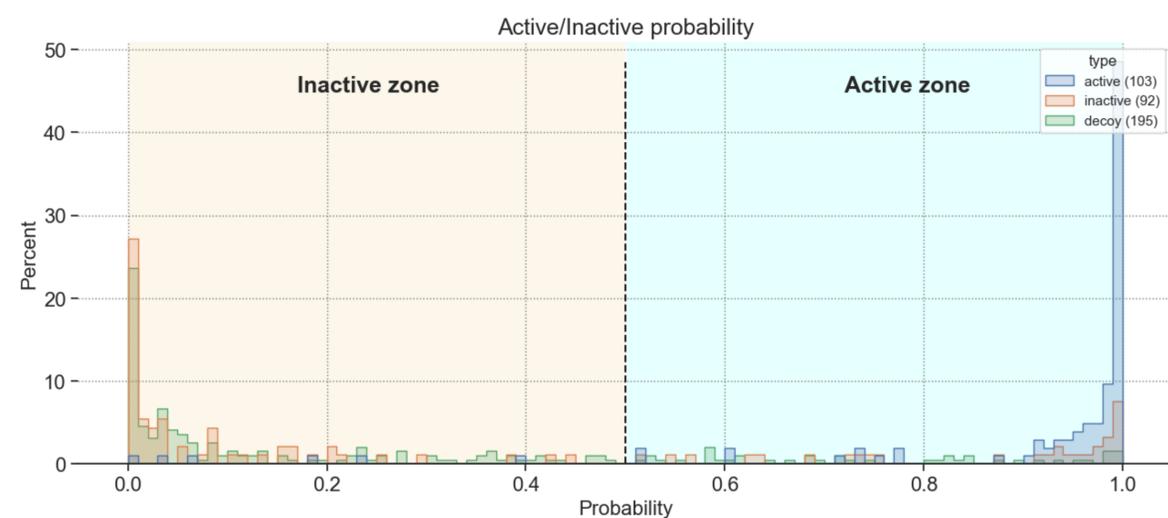
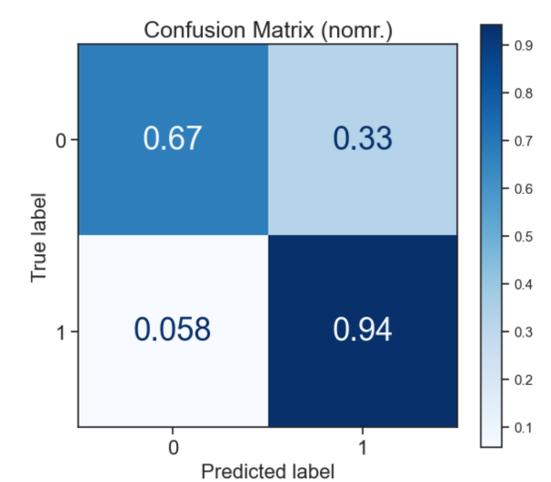
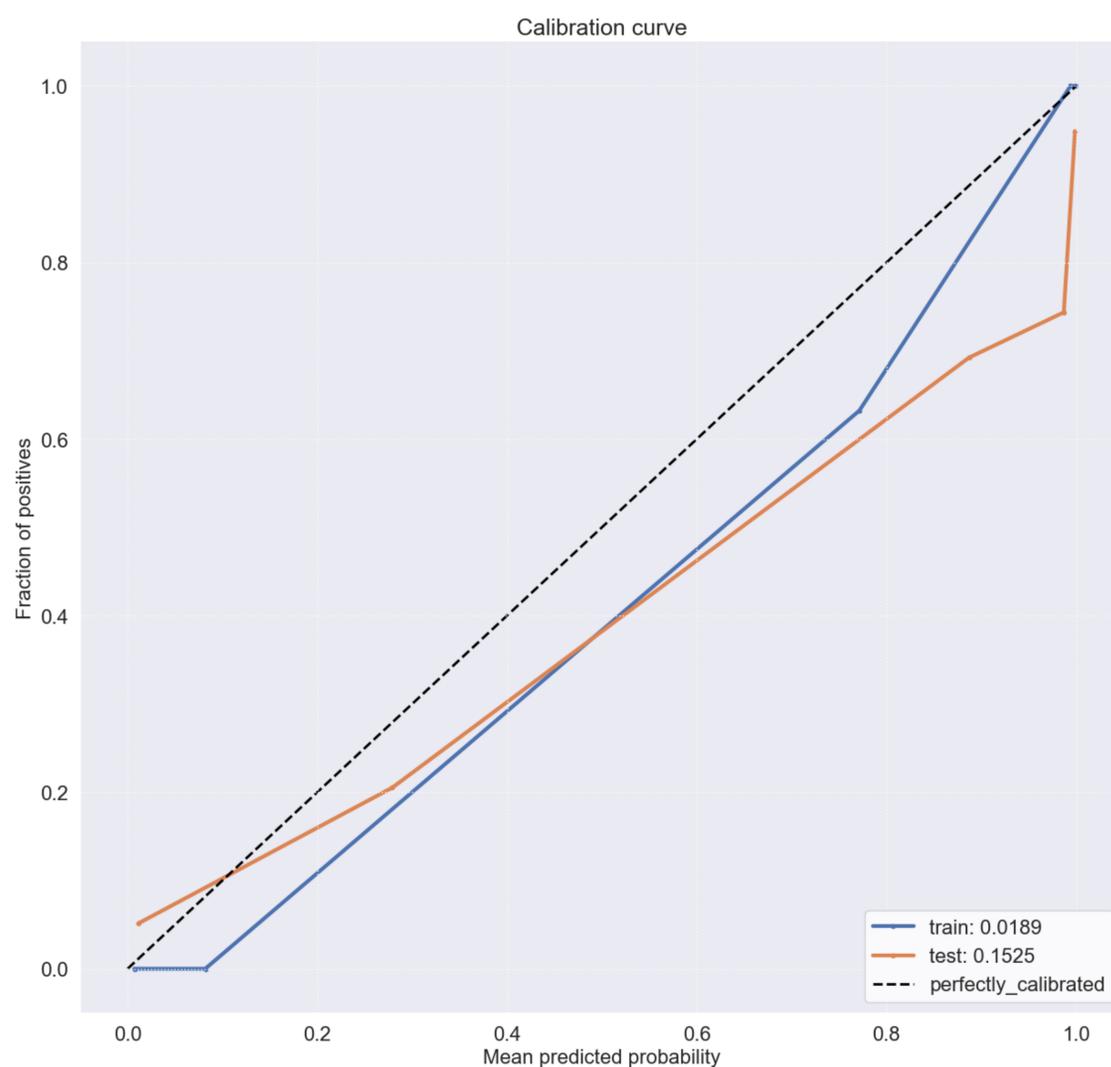
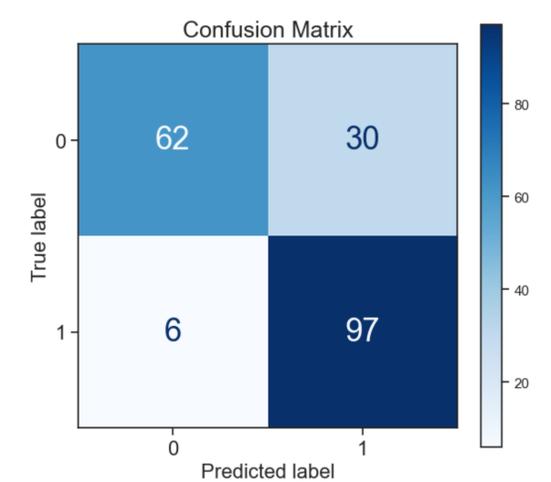


Metric	Train	Test
AUC	0.9994	0.8832
accuracy	0.9781	0.8103
balanced accuracy	0.9769	0.8053
recall_(sens)	1.0	0.8932
specificity	0.9538	0.7174
precision	0.9601	0.7797
f1_score	0.9781	0.8083

Protein: P10721 - metric: f1

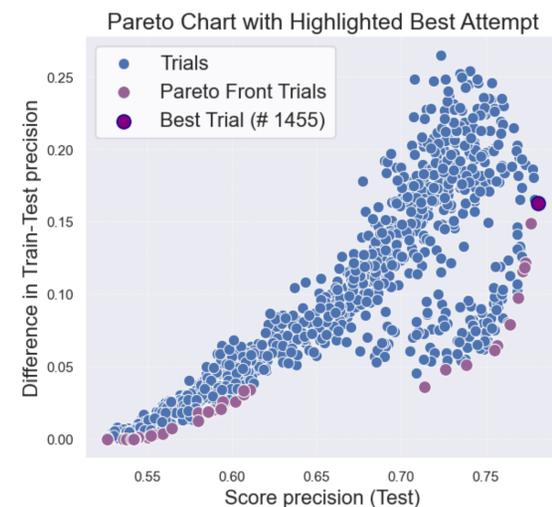
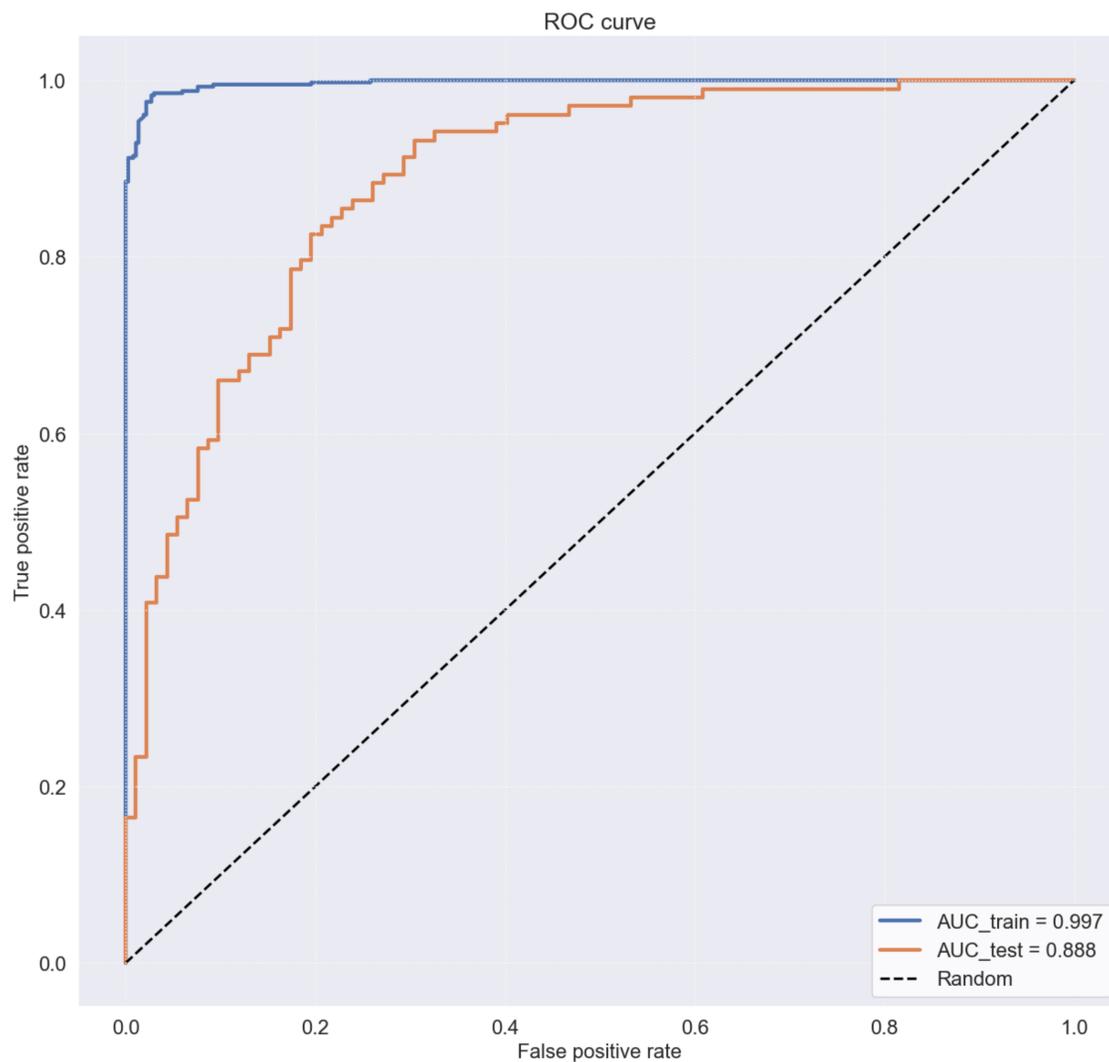
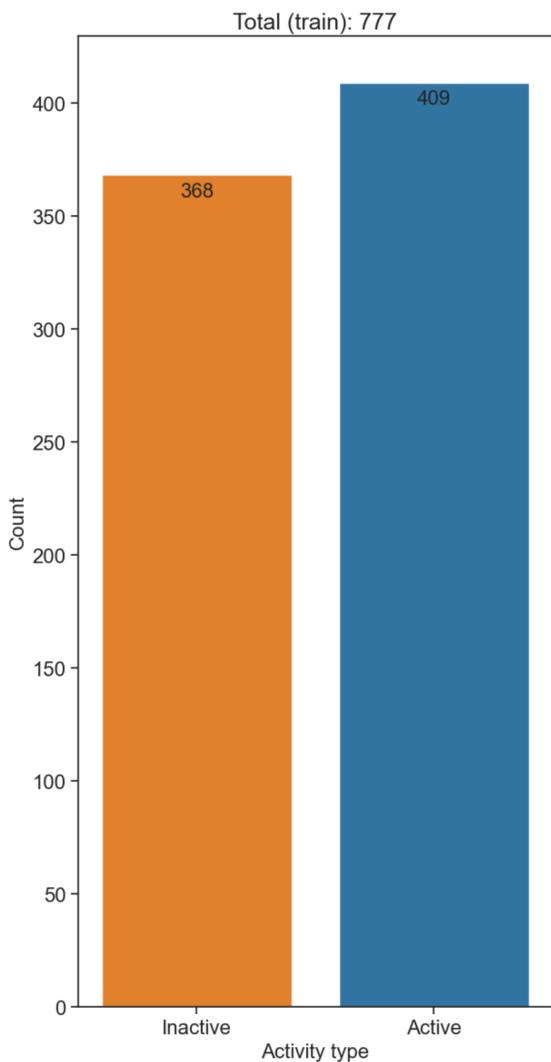


XGBoost Parameters	Value
alpha	3.1706
colsample_bytree	0.8823
gamma	0.0216
lambda	0.0412
learning_rate	0.1596
max_depth	10.0
min_child_weight	6.0
n_estimators	879.0
reg_alpha	0.9436
reg_lambda	0.416
scale_pos_weight	10.4086
subsample	0.8272

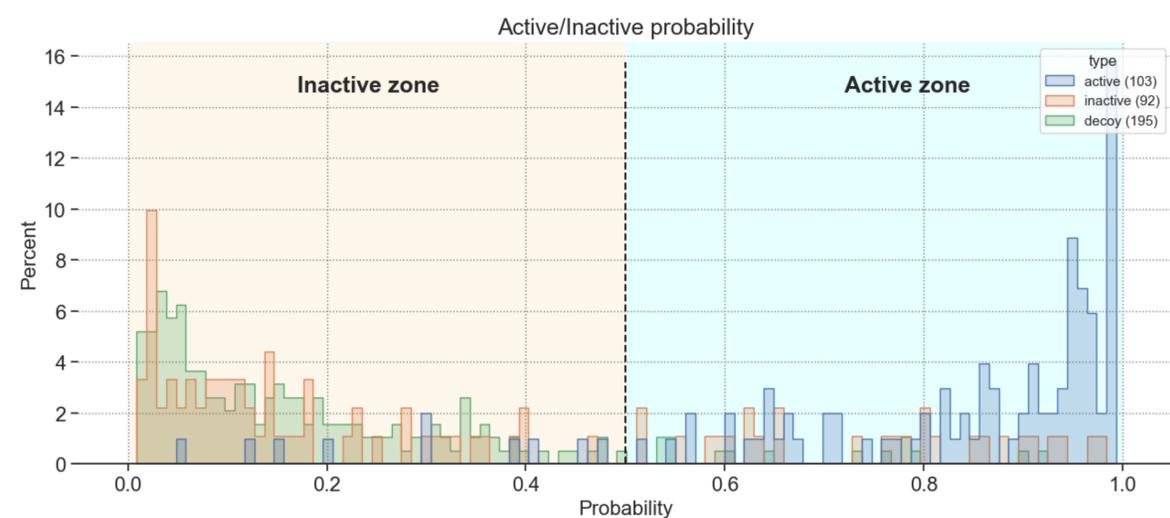
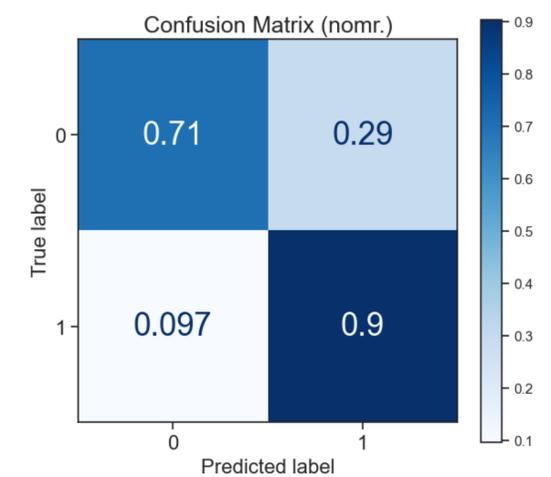
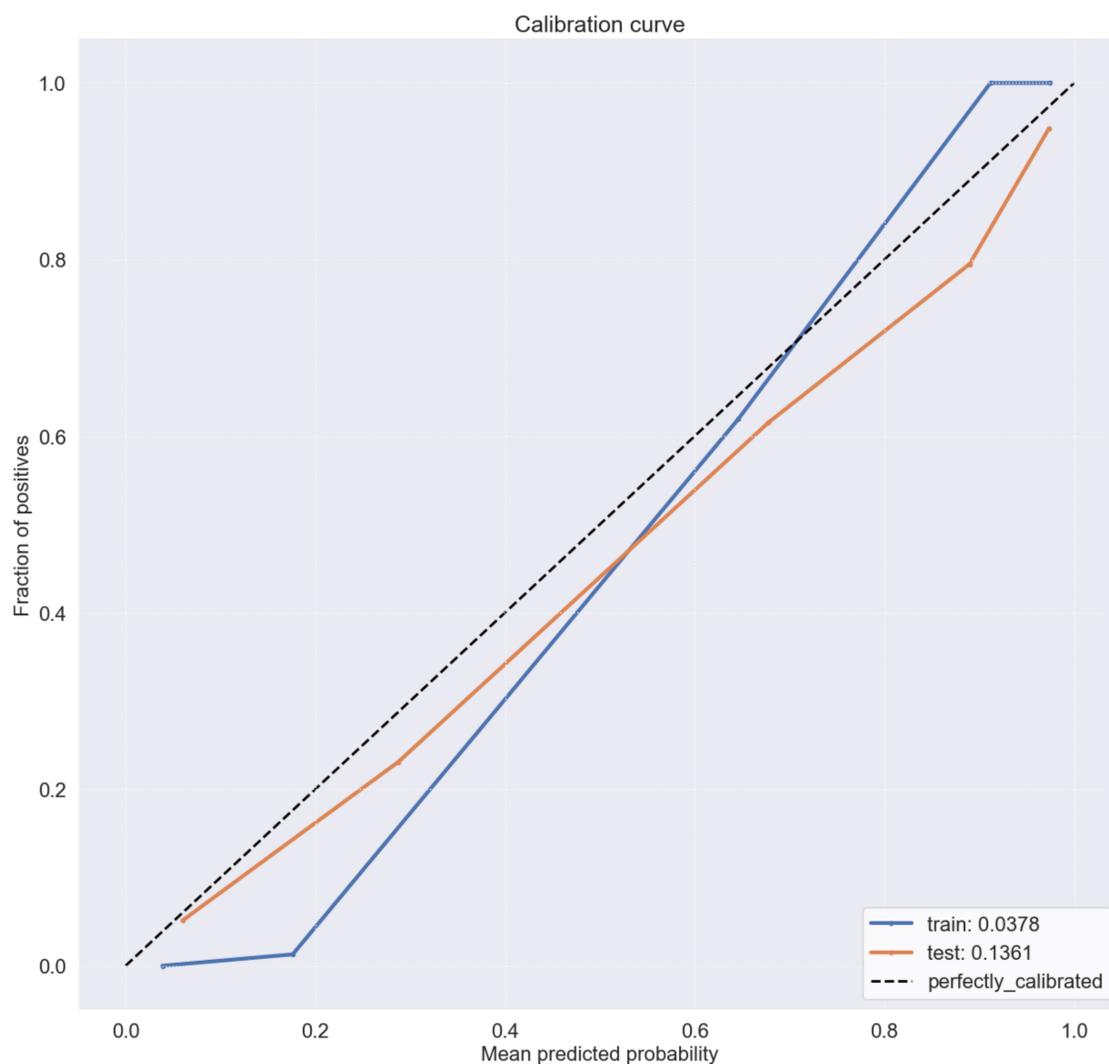
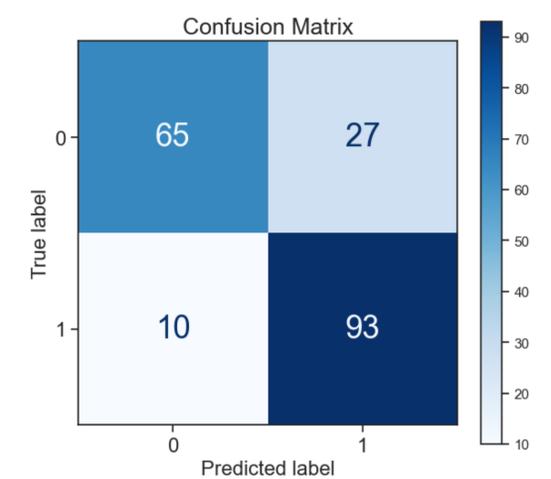


Metric	Train	Test
AUC	0.9998	0.8825
accuracy	0.9768	0.8154
balanced accuracy	0.9755	0.8078
recall_(sens)	1.0	0.9417
specificity	0.9511	0.6739
precision	0.9578	0.7638
f1_score	0.9768	0.8112

Protein: P10721 - metric: precision

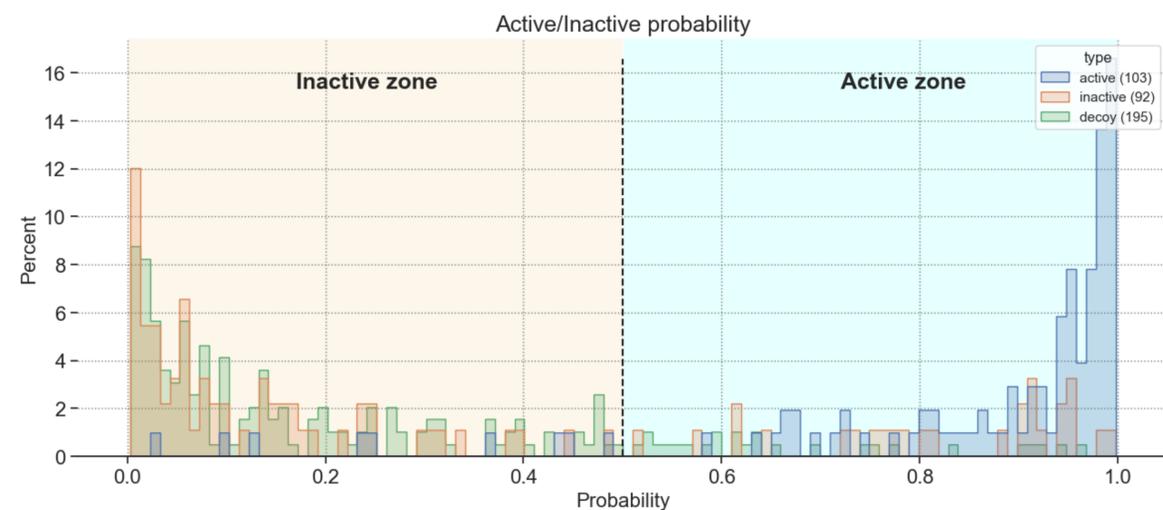
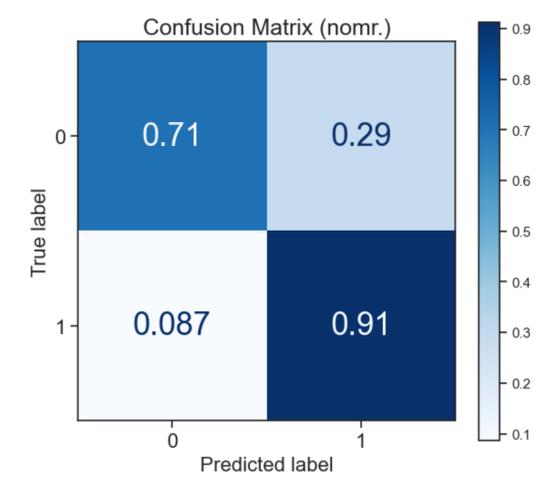
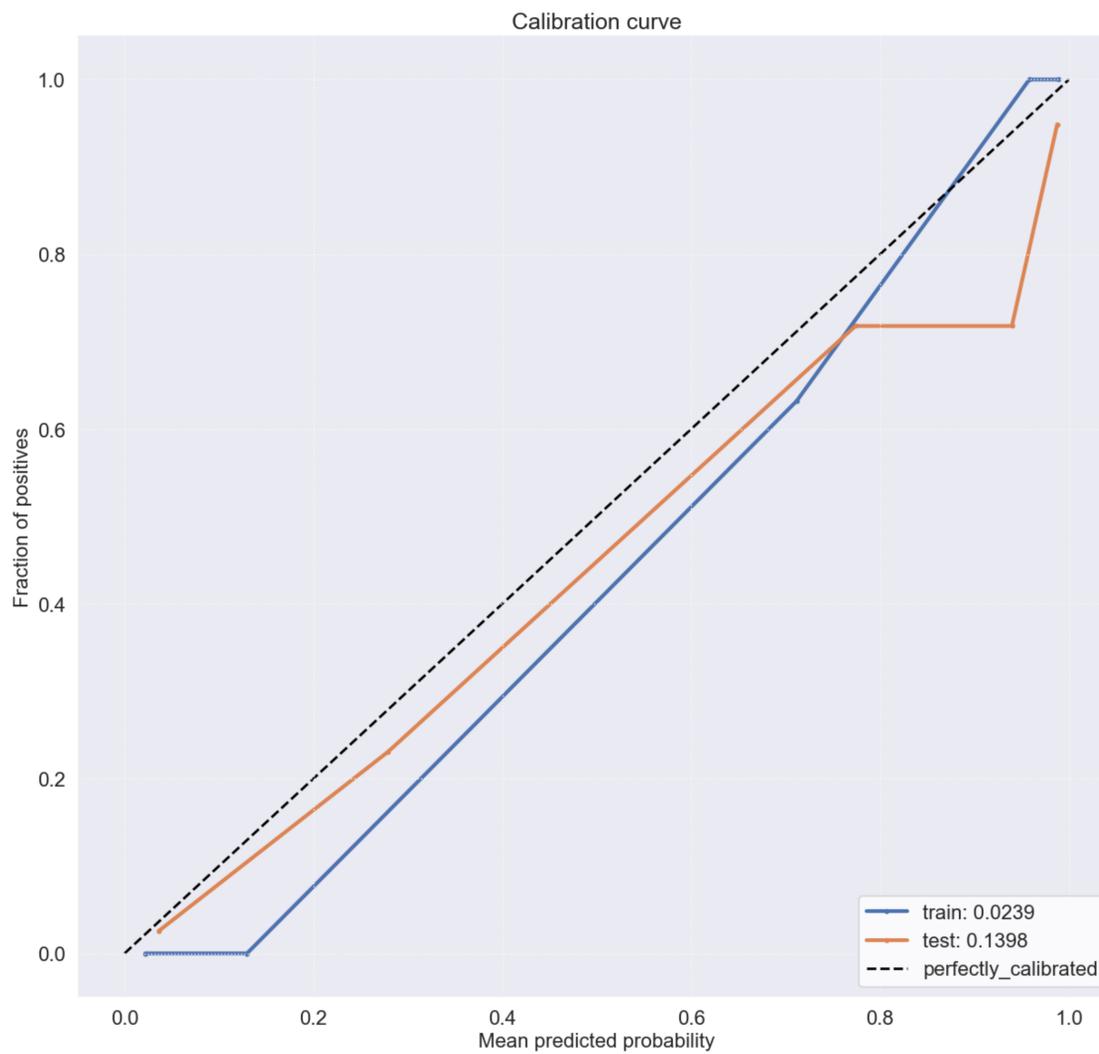
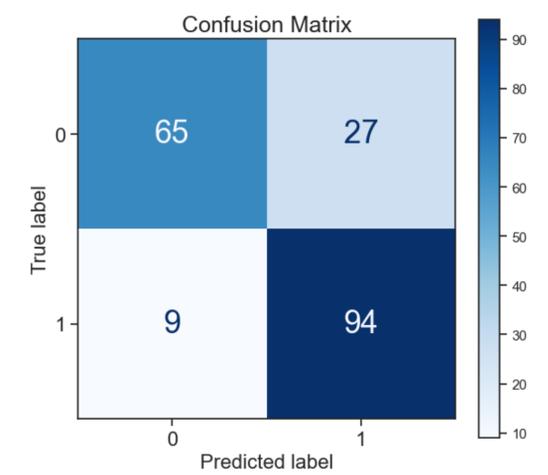
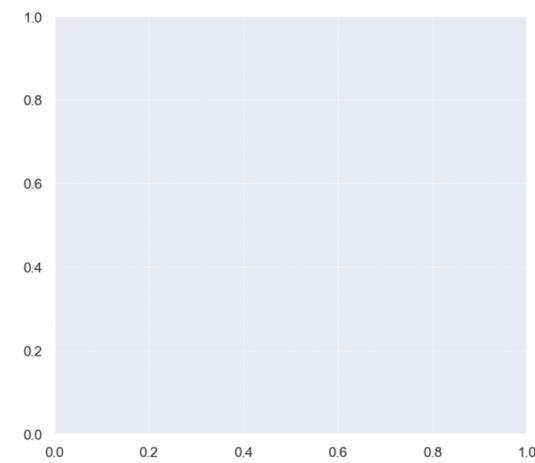
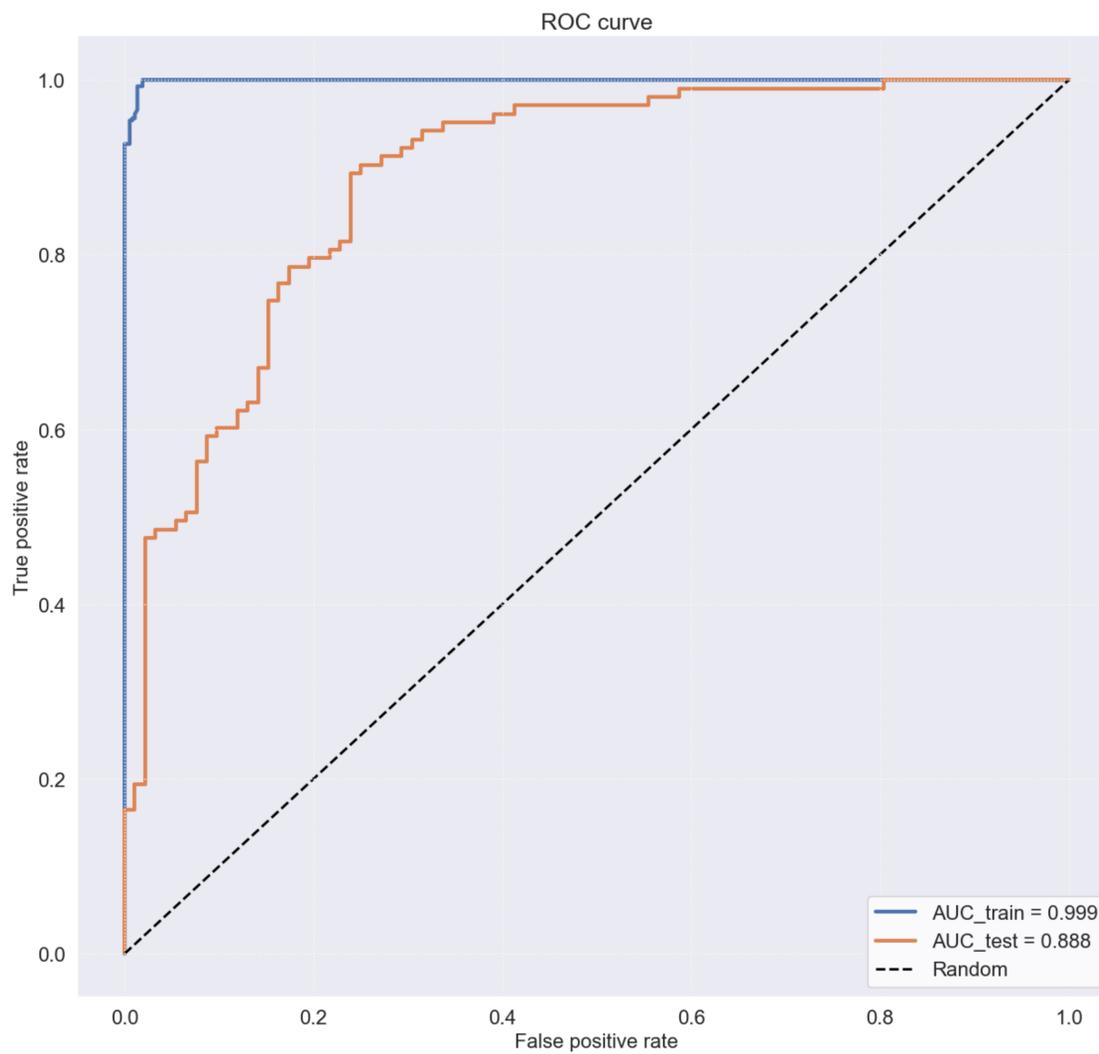
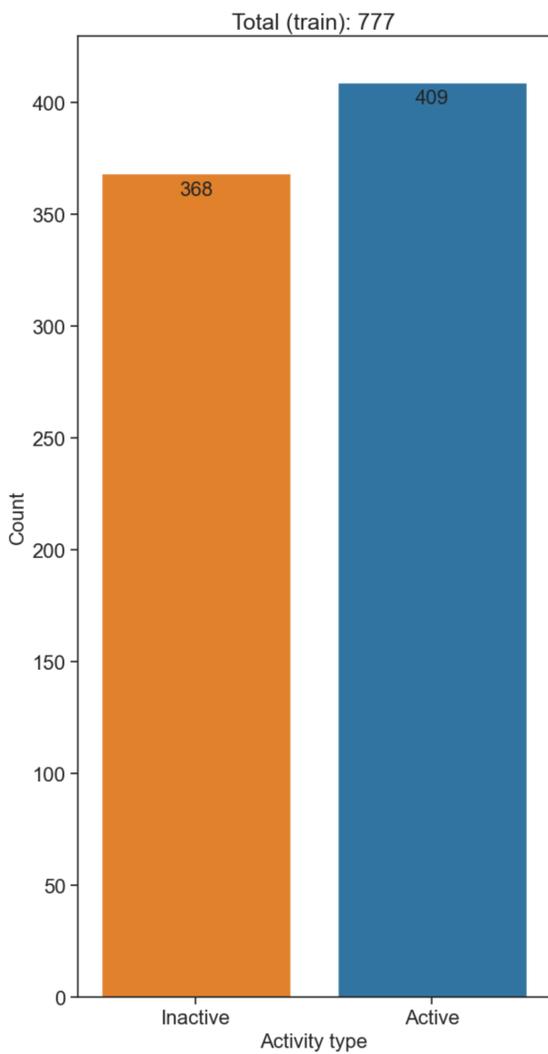


XGBoost Parameters	Value
alpha	0.8283
colsample_bytree	0.9511
gamma	0.0528
lambda	4.3388
learning_rate	0.0322
max_depth	10.0
min_child_weight	6.0
n_estimators	597.0
reg_alpha	0.5218
reg_lambda	0.7901
scale_pos_weight	1.4114
subsample	0.9988



Metric	Train	Test
AUC	0.9968	0.8882
accuracy	0.9691	0.8103
balanced accuracy	0.9682	0.8047
recall_(sens)	0.9853	0.9029
specificity	0.9511	0.7065
precision	0.9572	0.775
f1_score	0.9691	0.8078

Protein: P10721 - metric: SoftVotingXGBoostEnsemble



Metric	Train	Test
AUC	0.9992	0.888
accuracy	0.9743	0.8154
balanced accuracy	0.9728	0.8096
recall_(sens)	1.0	0.9126
specificity	0.9457	0.7065
precision	0.9534	0.7769
f1_score	0.9742	0.8128