

ProtoADME

ProtoADME is a computational (*in silico*) tool focused on the prediction of endpoints related with the ADME (Absorption, Distribution, Metabolism and Excretion) of chemical substances.

Endpoint

Toxicokinetic: Human liver microsomal stability

The metabolic stability assays offer a method to calculate the rate of clearance of a test compound over time in microsomal incubations, as a measure of clearance.

Metrics

Training set

Experimental values	QSAR predictions	
	Stable	Non-stable
Stable	1435	98
Non-stable	51	812

Parameters	Training	Validation
Accuracy	0.94	0.76
Sensitivity / recall	0.94	0.68
Specificity	0.94	0.81
Precision	0.89	0.67
Negative predictive value	0.97	0.81
F-score	0.92	0.67
Matthews Correlation Coefficient	0.87	0.49
Critical Success Index	0.84	0.51
Area under the ROC	0.94	0.74

Validation set

Experimental values	QSAR predictions	
	Stable	Non-stable
Stable	411	97
Non-stable	95	199

ProtoADME is part of

ProtoPRED

ProtoPRED platform allows the easy, fast and user-friendly prediction of different properties of chemical compounds, using proprietary (Q)SAR models.



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