

ADME: Plasma/Blood Stability

Background:

Screening of plasma and blood stability provides useful information:

- to prioritize compounds for *in vivo* studies
- to alert researchers to the potential liabilities of key pharmacophores, so that structural modifications could be applied to improve the stability of test compounds

Assay description

Source

plasma: mouse, rat, dog, rabbit, monkey, human
blood: mouse, rat, human

Compound concentration

5µM (0.5% DMSO)

Compound requirements

50µl of 10mM stock solution or
1-2 mg of dry matter

Incubation details

1h at 37°C or
0-24h with multiple time-points

Assay controls

propranolol, eucatropine, benfluorex (Figure 1)

Detection method

LC-MS/MS with internal standard

Results

%remaining or
half-life (multiple time-points assay)

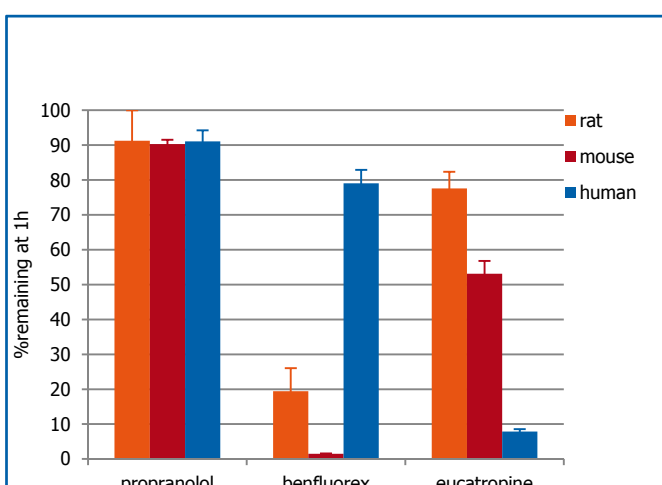


Figure 1. Plasma stability of reference compounds in 3 different species

Assay details adjustable to client's and/or project specific requests