

**Alternativní metody testování toxicity – *in silico*, Praha
2008**

Pallas for Windows

**CompuDrug International, 115 Morgan Drive, Sedona,
Arizona**

**HAZARDEXPERT SYSTEM
(METABOLEXPART SYSTEM
log P)**

Státní zdravotní ústav, Praha
© *Miloň Tichý, Marián Rucki, 2008*



Predicts: Toxicity (by HazardExpert)

Compounds

[New] [Retrieve] [Rename] [Delete] [Print]

[Import] [Export]

Prediction

[Options] [Predict] [Results] [Print] [Export]

[Select] [Unselect] Selected: 1

- FORMALDOXIME
 - FORMAMIDOXIME
 - CHLORPYRIFOS
 - IMIDACLOPRID1
 - IMIDACLOPRID2
 - KIM1
 - KIM2
 - KONG
 - METABOLIT 1 DIBROMODICYANOBUTANE
 - METABOLIT 2 DIBROMODICYANOBUTANE
 - METABOLIT 3 DIBROMODICYANOBUTANE
 - METHOXYETHANOL
 - N-BUTYL-BENZISOTHIAZOLIN-3-O FRA
 - OCTACHLORONAPHTHALENE
 - PHENOBARBITAL
 - POKUS
 - PROPOXYETHANOL
 - TEST1
 - THIACLOPRID**
- Path: default

Options [X]

What to Predict:

[Toxicity (by HazardExpert)] [Specific Options]

Predict when result exists

[Ok] [Cancel]

Pallas 3.1 - Toxicity (by HazardExpert) - [Work : default]

File Edit Drawtools Predict Wizards Window Help

Options

What to Predict:
Toxicity (by HazardExpert) Specific Options

Predict when result exists

Ok Cancel

Select Unselect Selected: 1

FORMALDOXIME
FORMAMIDOXIME
CHLORPYRIFOS
IMIDACLOPRID1
IMIDACLOPRID2
KIM1
KIM2
KONG
METABOLIT 1 DIBROMODICYANOBTANE
METABOLIT 2 DIBROMODICYANOBTANE
METABOLIT 3 DIBROMODICYANOBTANE
METHOXYETHANOL
N-BUTYL-BENZISOTHIAZOLIN-3-O FRA
OCTACHLORONAPHTHALENE
PHENOBARBITAL
POKUS
PROPOXYETHANOL
TEST1
THIACLOPRID

Path: default

Specific options

Toxic fragment database

Standard
 User defined: Browse

Conditions

Species	Duration	Dosage
Mammals(oral)	Repeated	Low
Soil invertebrates(oral)		
Soil invertebrates(inhalation)		
Fish(oral)		
Fish(intrabrachial)		
Birds(oral)		
Birds(inhalation)		
Mammals(oral)		
Mammals(inhalation)		

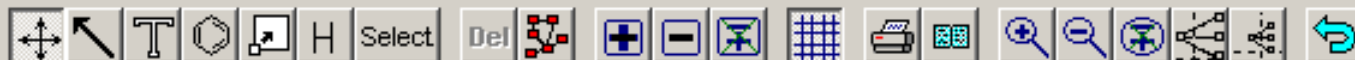
Restore Default OK Cancel

Start Pallas for Windows.ppt Pallas 3.1 - Toxicity (Milon Pizazz Plus [Untitled] CS << 11:09

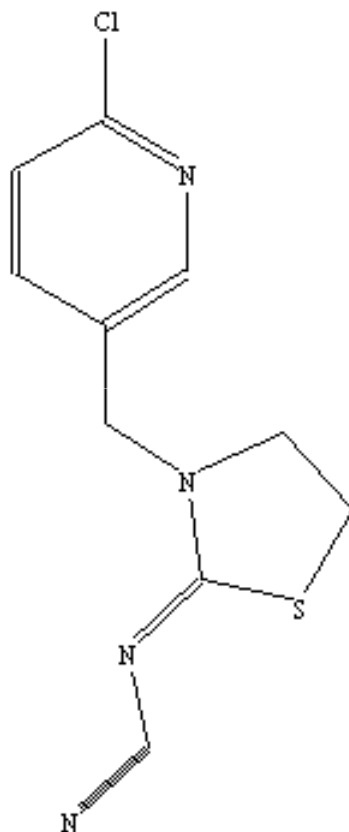


Drawing : THIACTOPRID

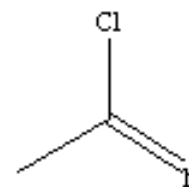
Knowledge Management



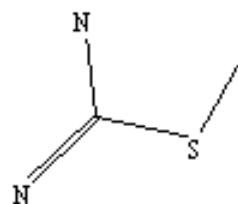
THIACLOPRID



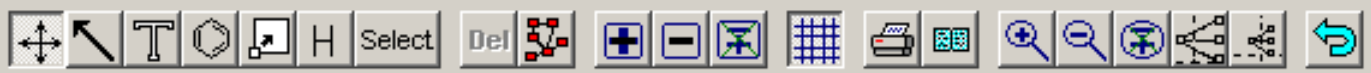
THIACLOPRID
MW: 252.74



T_HAT_HAT_70
MW: 77.52



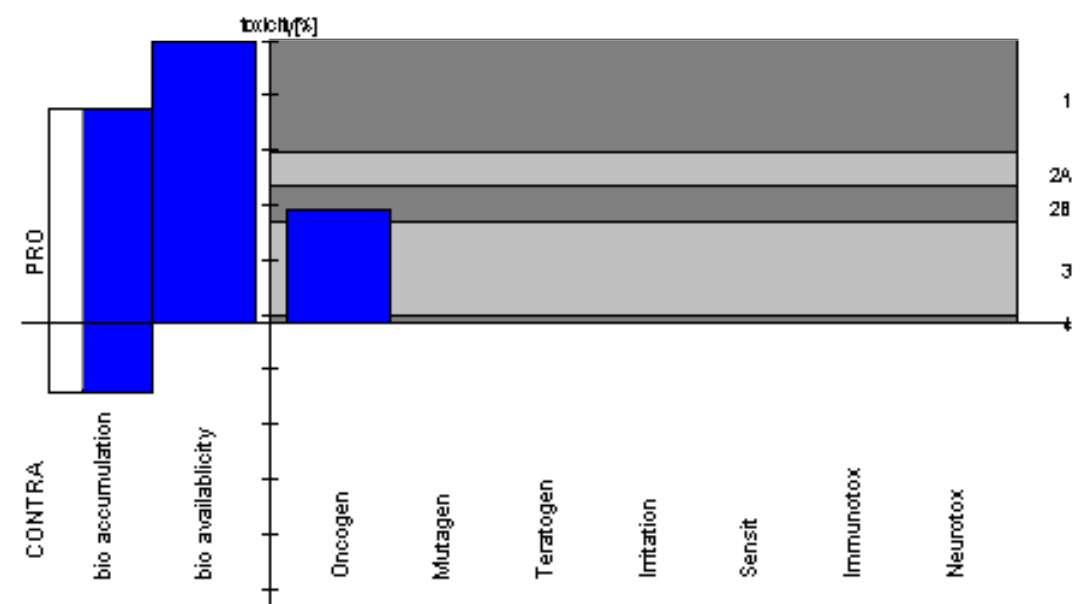
ISOTHIUREA
MW: 90.16



THIACLOPRID

Compound Name: THIACLOPRID
Fragment Name: ISOTHIIOUREA
Species : Mammals(oral)
Duration: Repeated
Dosage : Low
logP: 1.88
pKaa: none
pKab: 6.22

Predicted toxicity: possible[2B]

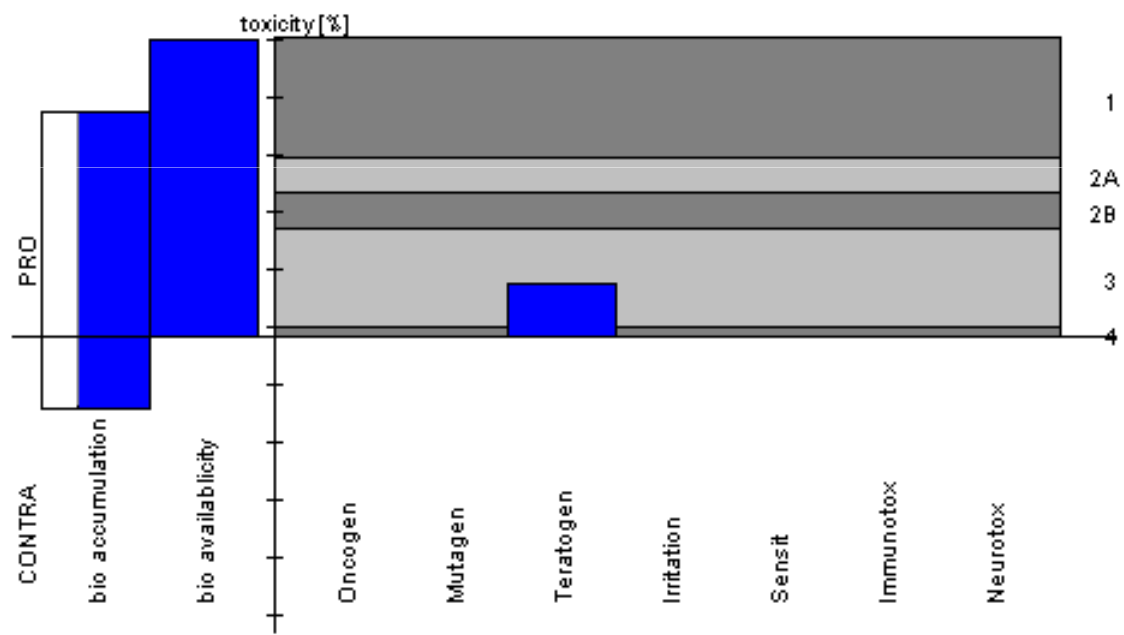




THIACLOPRID

Compound Name: THIACLOPRID
Fragment Name: T_HAT_HAT_70
Species : Mammals(oral)
Duration: Repeated
Dosage : Low
logP: 1.88
pKaa: none
pKab: 6.22

Predicted toxicity: uncertain[3]



Jiný příklad viz skripta (2) str.68

Pavel Dubský: Ukázka užití predikčního modelu.