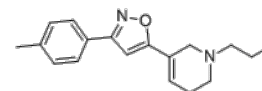


**Product Name** : PD144418  
**Cat. No.** : PC-60790  
**CAS No.** : 154130-99-1  
**Molecular Formula** : C<sub>18</sub>H<sub>22</sub>N<sub>2</sub>O  
**Molecular Weight** : 282.387  
**Target** : Sigma Receptor  
**Solubility** : 10 mM in DMSO



## Biological Activity

PD144418 is a potent, selective **sigma 1** ligand with  $K_i$  of 0.08 nM, >3000-fold selectivity over sigma 2 ( $K_i=1377$  nM). PD144418 displays lacked affinity for dopaminergic, adrenergic, muscarinic and a variety of other receptors. PD144418 reverses the NMDA-induced increase in cGMP in rat cerebellar slices without affecting the basal levels, potentiates the decrease in 5-hydroxytryptophan caused by haloperidol in the mesolimbic region in rats. PD144418 antagonizes mescaline-induced scratching without effect on spontaneous motor activity.

## References

- Akunne HC, et al. *Neuropharmacology*. 1997 Jan;36(1):51-62.  
Lever JR, et al. *J Pharmacol Exp Ther*. 2014 Oct;351(1):153-63.  
Schmidt HR, et al. *Nature*. 2016 Apr 28;532(7600):527-30.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

E-mail: tech@probechem.com