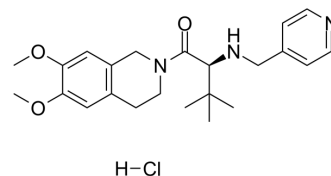


TCS-OX2-29 hydrochloride

Cat. No.:	HY-100452A
CAS No.:	1610882-30-8
Molecular Formula:	C ₂₃ H ₃₂ ClN ₃ O ₃
Molecular Weight:	433.97
Target:	Orexin Receptor (OX Receptor)
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description TCS-OX2-29 (hydrochloride) is a potent, high affinities and selective orexin-2 receptor (OX₂R) antagonist with an IC₅₀ value of 40 nM and a pK_i value of 7.5. TCS-OX2-29 displays ~250-fold selectivity for OX₂ over OX₁^{[1][2]}.

CUSTOMER VALIDATION

- J Pineal Res. 2019 Jan;66(1):e12530.
- Med Sci Monit. 2019 Apr 19;25:2886-2895.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Hirose M, et al. N-acyl 6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline: the first orexin-2 receptor selective non-peptidic antagonist. *Bioorg Med Chem Lett.* 2003 Dec 15;13(24):4497-9.

[2]. Tabaeizadeh M, et al. The differential effects of OX1R and OX2R selective antagonists on morphine conditioned place preference in naïve versus morphine-dependent mice. *Behav Brain Res.* 2013 Jan 15;237:41-8.

[3]. Mould R, et al. Binding kinetics differentiates functional antagonism of orexin-2 receptor ligands. *Br J Pharmacol.* 2014 Jan;171(2):351-63.

Caution: Product has not been fully validated for medical applications. For research use only.

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