MOLNOVA
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Datasheet (Version 1.0)

Product Name	:	DORA-22
Synonyms	:	——
Cat No.	:	M22081
CAS Number	:	1088991-95-0
Molecular Formula	:	C23H22F2N4O2?
Formula Weight	:	424.4
Chemical Name	:	——
Description	:	DORA-22 is a dual orexin receptor antagonist, improves mild stress-induced insomnia with minimal effect on memoryDORA-22, a dual orexin receptor antagonist, improves mild stress-induced insomnia with minimal effect on memory.DORA-22 treatment improved the insomnia-related sleep disruption-wake was attenuated and NREM sleep was normalized.?REM sleep amounts were enhanced compared with vehicle treatment for one dose (30 mg/kg).?In the first hour of insomnia model exposure, DORA-22 promoted the number and average duration of NREM sleep spindles, which have been previously proposed to play a role in memory consolidation (all doses).?Water maze measures revealed probe trial performance improvement for select doses of DORA-22, including increased time spent in the platform quadrant (10 and 30 mg/kg) and time spent in platform location and number of platform crossings (10 mg/kg only).?In conclusion, DORA-22 treatment improved insomnia-related sleep disruption and memory consolidation deficits.
Pathway	:	Others
Target	:	Other Targets
Receptor	:	OX Receptor
Solubility	:	——
SMILES	:	C[C@@H]1CC[C@@H](COc2ccc(F)cn2)CN1C(=O)c1cc(F)ccc1-c1ncccn1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1. Gamble M C , Katsuki F , Mccoy J G , et al. The dual orexinergic receptor antagonist DORA-22 improves the sleep disruption and memory impairment produced by a rodent insomnia model[J]. Sleep, 2019.