MOLNOVA
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Datasheet (Version 1.0)

Product Name	:	DDO-7263
Synonyms	:	——
Cat No.	:	M35426
CAS Number	:	2254004-96-9
Molecular Formula	:	C14H9F2N3O
Formula Weight	:	273.24
Chemical Name	:	——
Description	:	DDO-7263, a 1,2,4-Oxadiazole derivative, is a potent Nrf2-ARE activator. DDO-7263 upregulates Nrf2 through binding to Rpn6 to block the assembly of 26S proteasome and the subsequent degradation of ubiquitinated Nrf2. DDO-7263 induces Nrf2 translocation into the nucleus. DDO-7263 inhibits of NLRP3 inflammasome activation. DDO-7263 exerts anti-inflammatory activity and has the potential for neurodegenerative diseases research, such as Parkinson's disease (PD).
Pathway	:	Nuclear Receptor/Transcription Factor
Target	:	Keap1-Nrf2
Receptor	:	Nrf2
Solubility	:	In Vitro:?DMSO : 17.86 mg/mL (65.36 mM; Ultrasonic (<60°C)
SMILES	:	Cc1ccc(cn1)-c1noc(n1)-c1ccc(F)c(F)c1
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	

1. Li-Li Xu, et al. 5-(3,4-Difluorophenyl)-3-(6-methylpyridin-3-yl)-1,2,4-oxadiazole (DDO-7263), a novel Nrf2 activator targeting brain tissue, protects against MPTP-induced subacute Parkinson's disease in mice by inhibiting the NLRP3 inflammasome and protects PC12 cells against oxidative stress. Free Radic Biol Med. 2019 Apr;134:288-303.?