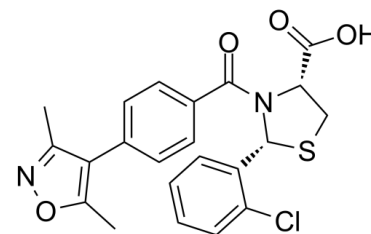


Data Sheet

Product Name:	TUG-1375
Cat. No.:	CS-0065747
CAS No.:	2247372-59-2
Molecular Formula:	C ₂₂ H ₁₉ ClN ₂ O ₄ S
Molecular Weight:	442.92
Target:	Others
Pathway:	Others
Solubility:	DMSO : 125 mg/mL (282.22 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

TUG-1375 is an agonist of free fatty acid receptor 2 (FFA2/GPR43), with a pK_i of 6.69. TUG-1375 is inactive on FFA3, FFA4, PPAR α , PPAR γ , PPAR δ , LXR α or LXR β ^[1]. IC₅₀ & Target: pK_i : 6.69 (FFA2)^[1] **In Vitro**: TUG-1375 exhibits pEC_{50} of 7.11 in the cAMP FFA2 assay, also active on murine FFA2 orthologue (pEC_{50} , 6.44 ± 0.13 in the cAMP assay)^[1].

References:

[1]. Hansen AH, et al. Discovery of a Potent Thiazolidine Free Fatty Acid Receptor 2 Agonist with Favorable Pharmacokinetic Properties. J Med Chem. 2018 Nov 8;61(21):9534-9550.

CAIndexNames:

4-Thiazolidinecarboxylic acid, 2-(2-chlorophenyl)-3-[4-(3,5-dimethyl-4-isoxazolyl)benzoyl]-, (2R,4R)-

SMILES:

O=C(N1[C@@H](C2=CC=CC=C2Cl)SC[C@H]1C(=O)C3=CC=C(C4=C(C)ON=C4C)C=C3

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

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