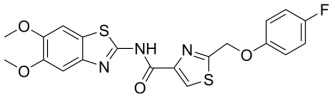
ERK2/p38α MAPK-IN-1

Cat. No.:	HY-161462
CAS No.:	1016427-72-7
Molecular Formula:	$C_{20}H_{16}FN_3O_4S_2$
Molecular Weight:	445.49
Target:	ERK; p38 MAPK
Pathway:	MAPK/ERK Pathway; Stem Cell/Wnt
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ERK2/p38α MAPK-IN-1 (Compound 1, In silico Hit-2) is a potent and selective ERK2 and p38α MAPK inhibitor, with an IC_{50} of 82 μM for ERK2. ERK2/p38α MAPK-IN-1 binds to the allosteric site of ERK2 and p38α MAPK in distinct manners. ERK2/p38α MAPK-IN-1 can be used for the research of type 2 diabetes[1].

REFERENCES

[1]. Hasegawa S, et al. Distinct binding modes of a benzothiazole derivative confer structural bases for increasing ERK2 or p38α MAPK selectivity. Biochem Biophys Res Commun. 2024 Apr 16;704:149707.

[2]. Kinoshita T, et al. Identification of allosteric ERK2 inhibitors through in silico biased screening and competitive binding assay. Bioorg Med Chem Lett. 2016 Feb 1;26(3):955-958.

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