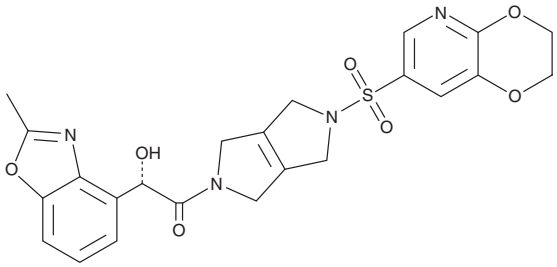
PRODUCT INFORMATION

FT709

Item No. 39971

CAS Registry No.: 2413991-74-7
Formal Name: (2S)-1-[5-[(2,3-dihydro-1,4-dioxino[2,3-b]pyridin-7-yl)sulfonyl]-3,4,5,6-tetrahydropyrrolo[3,4-c]pyrrol-2(1H)-yl]-2-hydroxy-2-(2-methyl-4-benzoxazolyl)-ethanone
MF: $C_{23}H_{22}N_4O_7S$
FW: 498.5
Purity: ≥98%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

FT709 is supplied as a solid. A stock solution may be made by dissolving the FT709 in the solvent of choice, which should be purged with an inert gas. FT709 is soluble in methanol and DMSO.

Description

FT709 is an inhibitor of ubiquitin-specific protease 9X (USP9X; IC_{50} = 82 nM).[1] It is selective for USP9X over a panel of 20 deubiquitinases (IC_{50}s = >25 µM for all). FT709 (10 µM) decreases the levels of the USP9X substrate centrosomal protein of 55 kDa (CEP55), as well as zinc-finger protein 598 (ZNF598), makorin 1 (MKRN1), and MKRN2, which are involved in the ribosomal quality control pathway, and inhibits the ribosomal stalling response to polyA tracts, a translation quality-control process, in a reporter assay using HEK293 cells.

Reference

1. Clancy, A., Heride, C., Pinto-Fernández, A., *et al.* The deubiquitylase USP9X controls ribosomal stalling. *J. Cell. Biol.* **220(3)**, e202004211 (2021).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM