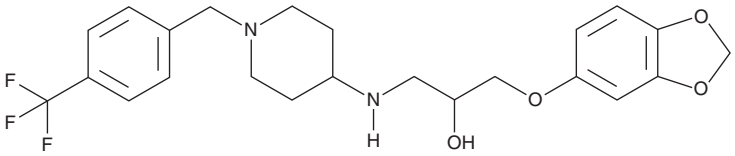
PRODUCT INFORMATION

MoTPS1-IN-1

Item No. 46487

CAS Registry No.:	2991072-02-5
Formal Name:	1-(1,3-benzodioxol-5-yloxy)-3-[[1-[[4-(trifluoromethyl)phenyl]methyl]-4-piperidinyl]amino]-2-propanol
Synonyms:	*M. oryzae* Trehalose-6-phosphate Synthase 1-IN-1, *M. oryzae* Trehalose-6-phosphate Synthase 1 Inhibitor 1, MoTPS1 Inhibitor 1
MF:	$C_{23}H_{27}F_3N_2O_4$
FW:	452.5
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

MoTPS1-IN-1 is supplied as a solid. A stock solution may be made by dissolving the MoTPS1-IN-1 in the solvent of choice, which should be purged with an inert gas. MoTPS1-IN-1 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

MoTPS1-IN-1 is a fungicide.[1] It is an inhibitor of trehalose-6-phosphate synthase 1 (TPS1; IC_{50} = 54 µM for the *M. oryzae* enzyme). It inhibits the development of lesions in barley leaves infected with the plant pathogenic fungus *M. oryzae* when used at a concentration of 20 µg/ml.

Reference

1. Jiang, Z., Shi, D., Chen, Y., *et al.* Discovery of novel isopropanolamine inhibitors against MoTPS1 as potential fungicides with unique mechanisms. *Eur. J. Med. Chem.* **260**, 115755 (2023).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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