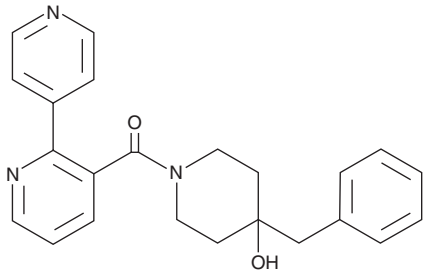
PRODUCT INFORMATION

Soticlestat

Item No. 34928

CAS Registry No.:	1429505-03-2
Formal Name:	[2,4′-bipyridin]-3-yl[4-hydroxy-4-(phenylmethyl)-1-piperidinyl]-methanone
Synonyms:	OV935, TAK-935
MF:	$C_{23}H_{23}N_3O_2$
FW:	373.4
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

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

Description

Soticlestat is an inhibitor of cholesterol 24-hydroxylase/CYP46A1 (IC_{50} = 0.0074 µM).[1] It is selective for cholesterol 24-hydroxylase/CYP46A1 over the cytochrome P450 (CYP) isoforms CYP2C8, -2C9, -2D6, -3A4, -1A2, and 2C19 (IC_{50}s = 62, 19, >100, 66, >100, and 14 µM, respectively). Soticlestat (0.02% in the diet) reduces seizure frequency and severity and improves survival in a model of Dravet syndrome induced by hyperthermia in mice with heterozygous deletion of *Scn1a* (*Scn1a*$^{+/-}$), the gene encoding voltage-gated sodium channel 1.1 ($Na_v1.1$).[2]

References

1. Koike, T., Yoshikawa, M., Ando, H.K., *et al.* Discovery of soticlestat, a potent and selective inhibitor for cholesterol 24-hydroxylase (CH24H). *J. Med. Chem.* **64(16)**, 12228-12244 (2021).
2. Hawkins, N.A., Jurado, M., Thaxton, T.T., *et al.* Soticlestat, a novel cholesterol 24-hydroxylase inhibitor, reduces seizures and premature death in Dravet syndrome mice. *Epilepsia* **62(11)**, 2845-2857 (2021).

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.

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