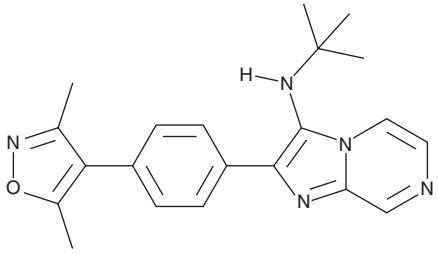
PRODUCT INFORMATION

UMB-32

Item No. 17123

CAS Registry No.:	1635437-39-6
Formal Name:	N-(1,1-dimethylethyl)-2-[4-(3,5-dimethyl-4-isoxazolyl)phenyl]-imidazo[1,2-a]pyrazin-3-amine
MF:	$C_{21}H_{23}N_5O$
FW:	361.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 258, 345 nm
Supplied as:	A crystalline 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

UMB-32 is supplied as a crystalline solid. A stock solution may be made by dissolving the UMB-32 in the solvent of choice, which should be purged with an inert gas. UMB-32 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of UMB-32 in ethanol and DMF is approximately 20 mg/ml and approximately 10 mg/ml in DMSO.

UMB-32 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, UMB-32 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. UMB-32 has a solubility of approximately 0.1 mg/ml in a 1:5 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

UMB-32 is an inhibitor of the BET bromodomain BRD4 (K_d = 550 nM; IC_{50} = 637 nM) and the bromodomain-containing transcription factor TAF1 (K_d = 560 nM) and TAF1L (K_d = 1.3 µM).[1]

Reference

1. McKeown, M.R., Shaw, D.L., Fu, H., *et al.* Biased multicomponent reactions to develop novel bromodomain inhibitors. *J. Med. Chem.* **57(21)**, 9019-9027 (2014).

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