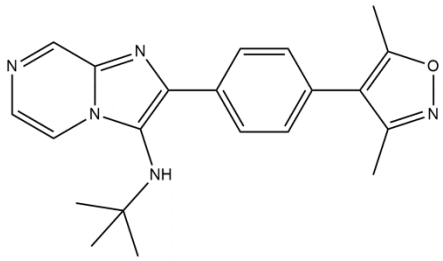
UMB-32

08/19

ALTERNATE NAMES: N-tert-butyl-2-[4-(3,5-dimethyl-1,2-oxazol-4-yl)phenyl]imidazo[1,2-a]pyrazin-3-amine; N-(1,1-dimethylethyl)-2-[4-(3,5-dimethyl-4-isoxazolyl)phenyl]-imidazo[1,2-a]pyrazin-3-amine

CATALOG #:
B2848-1 1 mg
B2848-5 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{21}H_{23}N_5O$

MOLECULAR WEIGHT: 361.44

CAS NUMBER: 1635437-39-6

APPEARANCE: A crystalline solid

PURITY: ≥98%

SOLUBILITY:
~20 mg/ml in ethanol and DMF
~10 mg/ml in DMSO

DESCRIPTION: UMB-32 is an inhibitor of the BET bromodomain BRD4 and the bromodomain-containing transcription factors TAF1 and TAF1L. UMB-32 binds BRD4 with a Kd of 550 nM and the EC_{50} is 724 nM in BRD4-dependent lines. UMB-32 binds to TAF1 and TAF1L with the Kd values of 560 nM and 1.3 µM, respectively.

STORAGE TEMPERATURE: -20ºC

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCE: McKeown, M.R., Shaw, D.L., Fu, H., et al. Biased multicomponent reactions to develop novel bromodomain inhibitors. Journal of Medicinal Chemistry 57(21), 9019-9027 (2014).

RELATED PRODUCTS:

PFI-1 (Cat. No. 2203)
EZSolution™ I-BET151, Sterile-filtered (Cat. No. B2252)
EZSolution™ PFI-1, Sterile-filtered (Cat .No. B2251)
I-BET151 (Cat. No. 2220)
Bromodomain Inhibitor, (+)-JQ1 (Cat. No. 2070)

DISCLAIMER: ***FOR RESEARCH USE ONLY! Not to be used on humans.***