

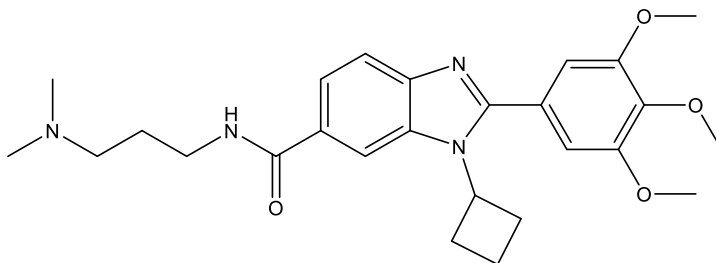
**Catalog #10-4451**

**CDD-2789**

CAS# 3052084-77-9

1-Cyclobutyl-N-(3-(dimethylamino)propyl)-2-(3,4,5-trimethoxyphenyl)-1H-benzo[d]imidazole-6-carboxamide

Lot # FBA10005



CDD-2789 is a potent ( $IC_{50} = 3.9$  nM ALK1; 2.1 nM ALK2) and selective ALK1/2 inhibitor. It attenuated activin A and BMP-induced phosphorylated SMAD1/5 activation in fibroblasts in a dose-dependent manner.

- 1) Jimidi *et al.* (2024), *Discovery of highly potent and ALK2/ALK1 selective kinase inhibitors using DNA-encoded chemistry technology*, Proc. Natl. Acad. Sci. USA **121** e2413108121

**PHYSICAL DATA**

Molecular Weight:	466.58
Molecular Formula:	C <sub>26</sub> H <sub>34</sub> N <sub>4</sub> O <sub>4</sub>
Purity:	>98% (HPLC)
	NMR: (Conforms)
Solubility:	DMSO (at least 60 mg/mL)
Physical Description:	White solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

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