

Catalog # 10-4101 CPI-444

CAS# 1202402-40-1

7-(5-methylfuran-2-yl)-3-[[6-[[(3S)-oxolan-3-yl]oxymethyl]pyridine-2-yl]triazolo[4,5-d]pyrimidin-5-amine; Ciforadenant Lot # FBS2003

CPI-444 is a potent (Ki = 3.54 nM) and selective adenosine A_{2A} receptor antagonist. It blocked the induction of cAMP induced by NECA in HEK-293 cells with an IC₅₀ = 17.03 nM. CPI-444 monotherapy or in combination with anti-PD-1, anti-PD-L1, and anti-CTLA-4 induced T-cell-mediated tumor responses, inhibited tumor growth, and enabled antitumor immune memory.^{1,2} Currently in clinical trials for multiple cancers.³

- 1) Willingham et al. (2018), A2AR Antagonism with CPI-444 Induces Antitumor Responses and Augments Efficacy to Anti-PD-(L)1 and Anti-CTLA-4 in Preclinical Models; Cancer Immunol.Res. 6 1136
- Leone et al. (2018), Inhibition of the adenosine A2a receptor modulates expression of T cell coinhibitory receptors and improves effector function for enhanced checkpoint blockade and ACT in murine cancer models; Cancer Immunol.Immunother. 67 1271
- 3) NCT02655822

PHYSICAL DATA

 $\begin{array}{lll} \mbox{Molecular Weight:} & 407.43 \\ \mbox{Molecular Formula:} & C_{20}\mbox{H}_{21}\mbox{N}_{7}\mbox{O}_{3} \\ \mbox{Purity:} & >98\% \mbox{ by HPLC} \\ \mbox{NMR: (Conforms)} \\ \mbox{Solubility:} & \mbox{DMSO (>25 mg/ml)} \\ \end{array}$

Physical Description: Beige solid

Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in

DMSO may be stored at -20°C for up to 1 month.

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

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