

Product Datasheet

TNP-ATP (orb176434)

Description	TNP-ATP
Form/Appearance	solution in water; Color: orange; pH: 7.5 ± 0.5
Concentration	10 mM-11 mM
Storage	store at -20 °C
Note	For research use only
Application notes	Agonistic ligand, mainly for nucleoside receptor A 1 Nucleoside-triphosphates can be converted by different membrane-bound phosphatases into nucleosides acting as nucleoside receptor ligands. The ester form is protected during uptake and transport and can be well-directed released through activation. Spectroscopic Propertie: λ_{max} 259/408/470 nm, ε 25.0/26.4/18.5 L mmol⁻¹ cm⁻¹ (Tris-HCl pH 7.5), λ_{exc} 408/470 nm, λ_{em} 552 nm. Specific Ligands: Ligand for purinergic receptors: P2X1, P2X 2, Antagonist for purinergic receptors: P2X1, P2X 3, P2X 4, P2X.
Formula	C ₁₆ H ₁₇ N ₈ O ₁₉ P ₃
Purity	≥ 95% (HPLC)
MW	Theoretical MW: 718.27 g/mol; Detected MW: 717.98 g/mol
CAS Number	120360-48-7
SMILES	OP(=O)(O)OP(=O)(O)OP(=O)(O)OC[C@H]1O[C@@H](n2cnc3c(N)ncnc23)[C@@H]2OC3(O[C@H]12)C(=C/C(=[N+](\O))/[O-])/C=C3N(=O)=O)N(=O)=O
Expiration Date	12 months from date of receipt.