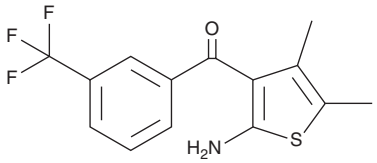
PRODUCT INFORMATION

PD 81723

Item No. 42371

CAS Registry No.:	132861-87-1
Formal Name:	(2-amino-4,5-dimethyl-3-thienyl) [3-(trifluoromethyl)phenyl]-methanone
Synonym:	LY202472
MF:	$C_{14}H_{12}F_3NOS$
FW:	299.3
Purity:	≥95%
Supplied as:	A 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

PD 81723 is supplied as a solid. A stock solution may be made by dissolving the PD 81723 in the solvent of choice, which should be purged with an inert gas. PD 81723 is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

PD 81723 is a positive allosteric modulator of the adenosine A_1 receptor.[1] PD 81723 (10 µM) inhibits apoptosis induced by TNF-α and cycloheximide (Item No. 14126) in HK-2 kidney epithelial cells.[2] It increases right atrial heart rate in combination with adenosine deaminase (ADA) in isolated rat right atria (EC_{50} = 0.83 nM).[2] PD 81723 (3 mg/kg) reduces plasma creatinine levels and infarct area in a mouse model of renal ischemia-reperfusion injury.[1]

References

1. Bruns, R.F., and Fergus, J.H. Allosteric enhancement of adenosine A_1 receptor binding and function by 2-amino-3-benzoylthiophenes. *Mol. Pharmacol.* **38(6),** 939-949 (1990).
2. Park, S.W., Kim, J.Y., Ham, A., *et al.* A_1 adenosine receptor allosteric enhancer PD-81723 protects against renal ischemia-reperfusion injury. *Am. J. Physiol. Renal. Physiol.* **303(5),** F721-F732 (2012).
3. Mudumbi, R.V., Montamat, S.C., Bruns, R.F., *et al.* Cardiac functional responses to adenosine by PD 81,723, an allosteric enhancer of the adenosine A_1 receptor. *Am. J. Physiol.* **264(3 Pt 2),** H1017-H1022 (1993).

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