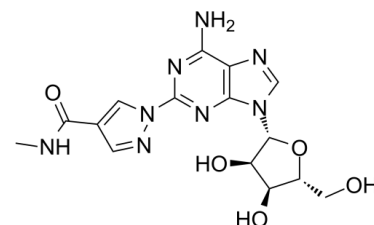


Data Sheet

Product Name:	Regadenoson
Cat. No.:	CS-5612
CAS No.:	313348-27-5
Molecular Formula:	C ₁₅ H ₁₈ N ₈ O ₅
Molecular Weight:	390.35
Target:	Adenosine Receptor
Pathway:	GPCR/G Protein
Solubility:	DMSO : 50 mg/mL (128.09 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Regadenoson is an A_{2A} adenosine receptor agonist that is a coronary vasodilator that is commonly used in pharmacologic stress testing. Target: A_{2A} adenosine receptor Regadenoson produces hyperemia quickly and maintains it for a duration that is useful for radionuclide myocardial perfusion imaging. The selective nature of the drug makes it preferable to other stress agents such as adenosine, which are less selective and therefore cause more side-effects. Regadenoson has a 2 to 3 minute biological half-life.[1]

References:

[1]. Pape M, et al. Safety and tolerability of regadenoson for myocardial perfusion imaging - first Danish experience. Scand Cardiovasc J. 2016 Jun;50(3):180-6.

CAIndexNames:

Adenosine,2-[4-[(methylamino)carbonyl]-1H-pyrazol-1-yl]-

SMILES:

OC[C@H]1[C@H]([C@H]([C@H](N2C=NC3=C2N=C(N4N=CC(C(NC)=O)=C4)N=C3N)O1)O)O

Caution: Product has not been fully validated for medical applications. For research use only.

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