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Data Sheet

PDE2A V1 (Mouse), GST-tag

Mouse, Recombinant, N-terminal GST-tag
Catalog #: 60017
Lot #: 160902-G1 **Conc.:** 0.21 mg/ml

Formulated in: 40mM Tris-HCl, pH 8.0, 110mM NaCl, 2.2mM KCl, 0.04% Tween-20 and 20% glycerol.

Stability: At least 6 months at –80°C. *Avoid freeze/thaw cycles. Storing diluted enzyme is not recommended, if necessary, use carrier protein (BSA 0.1 – 0.5%).*

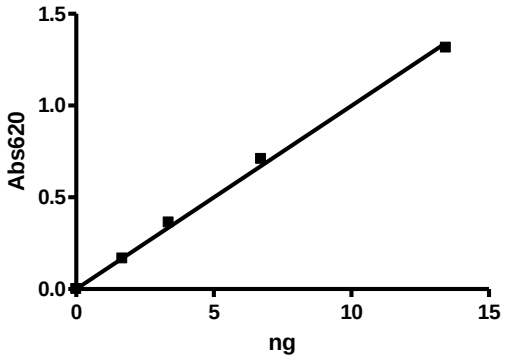
References:

1. Sadhu, K., *et al., J. Histochem. Cytochem.* **47(7),** 889-894 (1999).
2. Iffland, A., *et al., Biochemistry* **44 (23),** 8312-8325 (2005).

Description: Murine PDE2A, variant 1 (GenBank Accession No. NM_ NM_001143848), a.a 2-939 (end), with N-terminal GST tag, MW=132 kDa, expressed in a Baculovirus infected Sf9 cell expression system.
Specific Activity: ≥20,000 pmole/min/µg. One unit is defined as the amount of enzyme that will convert 1 pmole of 3′, 5′-cAMP to 5′-AMP per min at 37°C. Assay condition: 10 mM Tris-HCl, pH 7.4, 10 mM MgCl2, 0.1 mg/ml BSA, 0.05% Tween-20, 200 µM cAMP, and serial dilutions of mouse PDE2A, mouse PDE4C and mouse PDE1B at 37ºC for 20 min. Quantified by 5′ nucleotidase cleaving the 5′-AMP product and releasing the phosphate group which is detected by Malachite Green Reagent.
Application: Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling

Quality Assurance

Specific Activity



4-20% SDS-PAGE
Coomassie staining

Lane 1:
2µg mPDE2A(v1)
Lane 2:
Protein Marker

MW: 132 kDa
Purity: ≥86%