Dibutyryl-cAMP

PKA activator

Dibutyryl-cAMP (DB-cAMP) is a cell-permeable cAMP analog that preferentially activates cAMP-dependent protein kinase (e.g. protein kinase A) and inhibits phosphodiesterases. Used together with other compounds, DB-cAMP increases survival rate and promote differentiation of neural stem/progenitor cells into neurons *in vivo*. DB-cAMP also has anti-inflammatory properties and can be used to facilitate wound healing. Caution: Due to extra- and intra-cellular esterases, DB-cAMP releases butyrate, which may have distinct biological effects.

Citations: 20 View Online »

- Cell-permeable PKA activator
- Compound used to study neurogenesis

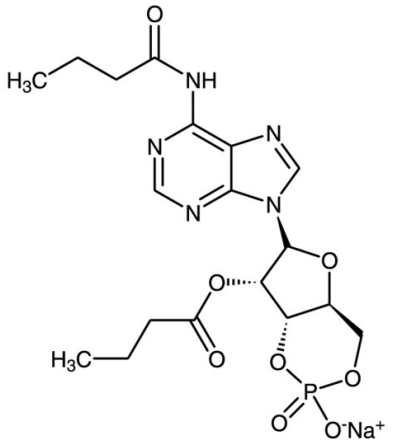
Ordering Information

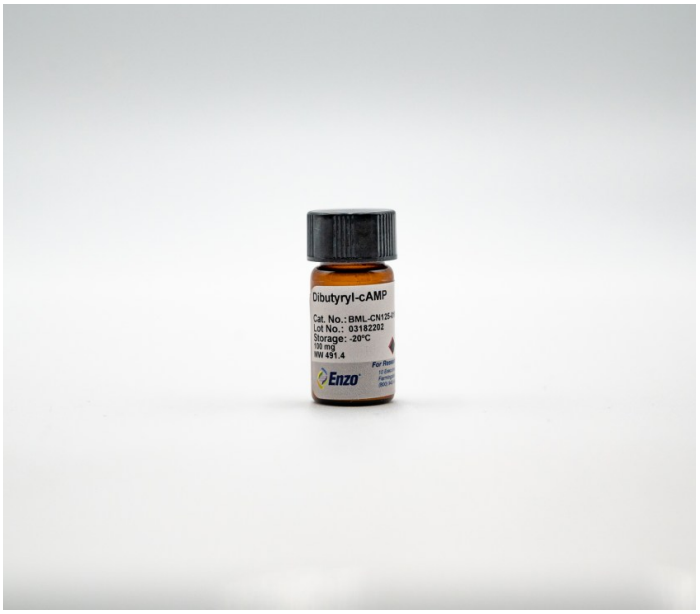
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BML-CN125-0030	30mg
BML-CN125-0100	100mg

Manuals, SDS & CofA

View Online »


O
H3C
NH
N
N
N
N
O
O
H3C
O
O
P
O
O
O-Na+


Dibutyryl-cAMP
Cat. No.: BML-CN125
Lot No.: 03182202
Storage: -20°C
100 mg
MW 491.4
Enzo

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended. Solution must be stored in the refrigerator and should be lyophilized and frozen for longer storage periods.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	Dibutyl cyclic AMP sodium salt, N6-2′-O-dibutyryladenosine-3′,5′-cyclic monophosphate, DB-cAMP
Appearance	White crystalline solid.
CAS	16980-89-5
Couple Target	PKA
Couple Type	Activator
Formula	$C_{18}H_{23}N_5O_8P$. Na
Identity	Identity determined by MS, 1H-NMR, 31P-NMR, and UV spectrum.
MW	491.4
Purity	≥98% (HPLC)
Solubility	Soluble in DMSO (200mM), 96% ethanol (25mM), or water (100mg/ml).
Source	Synthetic.

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