PRODUCT DATA SHEET

SIRT3 (human), (recombinant) (His-tag)

BML-SE270
Highly active

Product Number/Sizes

BML-SE270-0500	500 U

Product Specifications

ALTERNATIVE NAME:	Sirtuin 3
MW:	32.7 kDa
SOURCE:	Produced in *E. coli*. Active SIRT3 (aa 102-199). Contains a N-terminal His-tag.
UNIPROT ID:	Q9NTG7
FORMULATION:	Liquid. In 25mM TRIS, pH 7.5, containing 100mM NaCl, 5mM DTT, and 10% glycerol.
PURITY DETAIL:	Partially purified by single-step affinity chromatography and gel filtration.
SPECIFIC ACTIVITY:	One unit will deacetylate 1pmol/min of *Fluor de Lys*®-SIRT2 substrate (Prod. No. BML-KI179) at 37°C , using 500µM *Fluor de Lys*®-SIRT2 substrate, 500µM NAD^+.
LONG TERM STORAGE:	-80°C
MISCELLANEOUS/GENERAL:	Sirtuins, which are NAD-dependent lysine deacetylases, have been implicated in the control of longevity in yeast and *C. elegans* and, in yeast, have been shown to be necessary for the longevity increase effected by caloric restriction. Human SIRT3, one of seven human sirtuins, has been assigned, along with SIRT1 and SIRT2, to the class I sirtuin homology group.

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