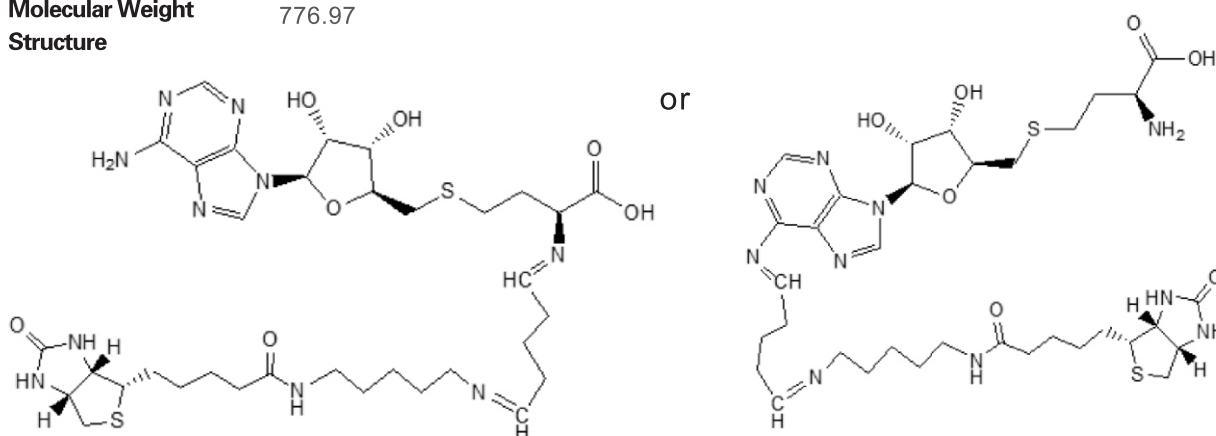


## Bio-12CN-SAH 1a/b/c

<b>Product name</b>	Bio-12CN-SAH 1a/b/c
<b>Catalog Number</b>	ACT00305-10/50/100
<b>Description</b>	Biotin is conjugated with S-adenosylhomocysteine through a 10-carbon and 2-nitrogen linker.

### Properties

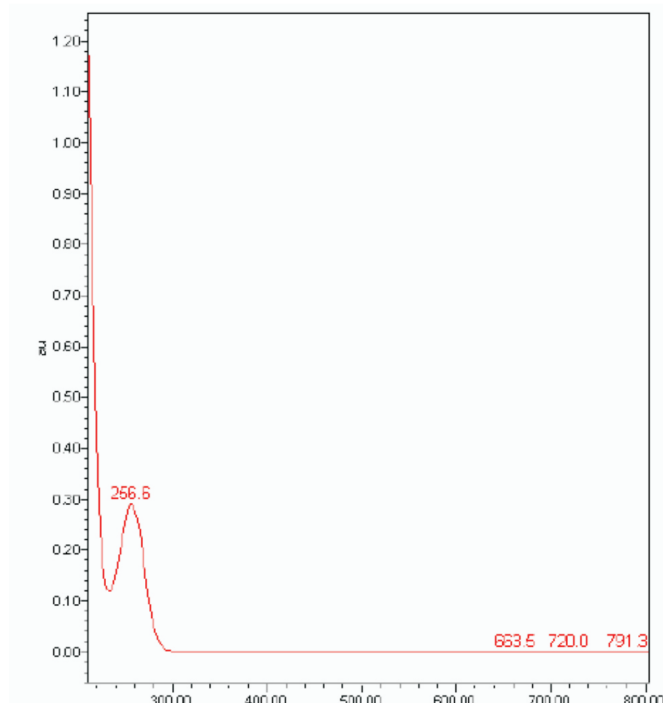
<b>Form</b>	Liquid
<b>Molecular formula</b>	C <sub>34</sub> H <sub>52</sub> N <sub>10</sub> O <sub>7</sub> S <sub>2</sub>
<b>Molecular Weight</b>	776.97
<b>Structure</b>	



<b>Storage instructions</b>	Store at -20°C
<b>Storage buffer</b>	PB 20mM pH 7.4 , Proclin 0.1%
<b>Concentration</b>	0.4 mg/ml or 0.5 mg/ml
<b>Purity</b>	100% (HPLC)

### Verification

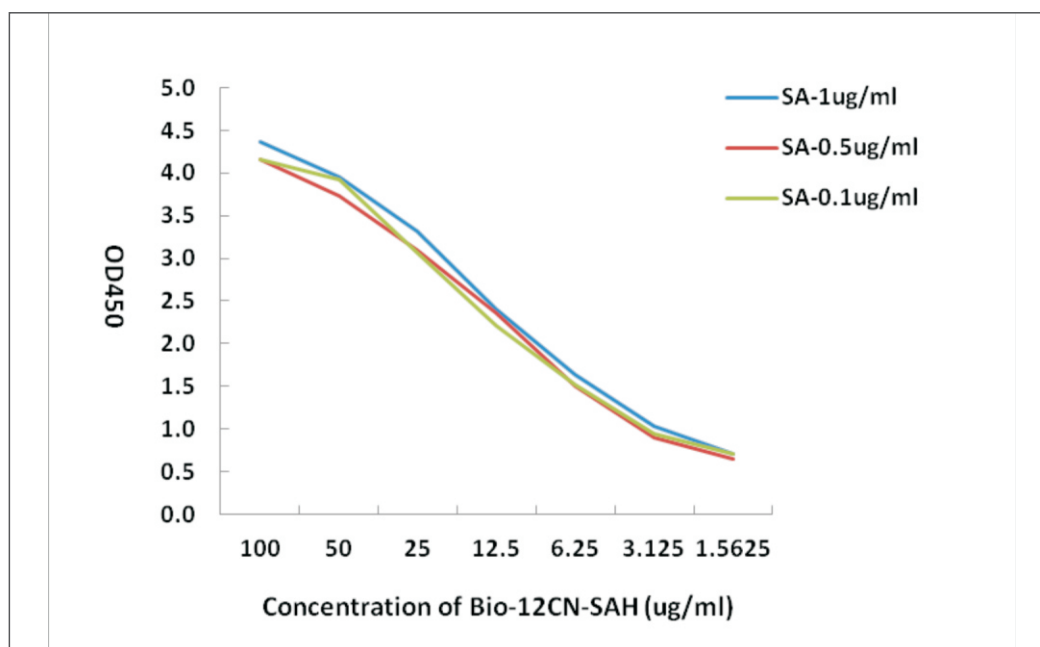
The ninhydrin colorimetry and thin layer chromatography methods were used to show reactions were complete and the conjugated products have the SAH component. Thorough purification was performed in each step to ensure removal of any non-conjugated materials. Ultraviolet absorption spectrum of the conjugated product showed a peak at 256.6nm. SAH UV absorption spectrum does not show any peak.



## Applications

The use of ACT00305-10/50/100 in the following application has been tested. Optimal concentrations should be determined by the end user. The product may be used in other not-yet-tested applications.

Application	Notes
<b>Competitive ELISA</b> (Plates coated with BSA-SAH, SA, Mouse-anti-SAH antibody respectively)	No difference between Biotin-conjugated and unconjugated SAH molecules in their capabilities to competitively bind anti-SAH antibody.



**Figure 1** Streptavidin was coated on micro-plate, followed by Bio-12CN-SAH. HRP-anti-SAH antibody was then added and OD<sub>450</sub> was read.