Nicotinamide, BSA-conjugated

DAG3371 chemosynchetic
Lot. No. (See product label)

PRODUCT INFORMATION

Product overview	Nicotinamide, BSA-conjugated
Description	Nicotinamide, Conjugated
Species	chemosynchetic
Specificity	Nicotinamide (vitamin PP) conjugated with bovine serum albumin (BSA).
Conjugate	BSA
Form	Lyophilized (1 mg); Lyophilized and reconstituted in deionized water (250 µg)
Molecular Mass	22 kDa
Applications	immunohistochemistry and immunocytochemistry
Usage	This antigen was used to produce a polyclonal antibody.
Quality Control Test	250 micrograms, 1 milligram

PACKAGING

Storage	Store at -20°C for one year. Reconstitute with deionized H2O + 0.1% merthiolate (optional preservative). This solution is stable at +4°C for 15 days.

BACKGROUND

Introduction	Vitamin B3 is a water-soluble vitamin whose derivatives such as NADH, NAD, NAD+, and NADP play essential roles in energy metabolism in the living cell and DNA repair. The designation Vitamin B3 also includes the amide form, nicotinamide or niacinamide. Severe lack of Vitamin B3 causes the deficiency disease pellagra, whereas a mild deficiency slows down the metabolism decreasing cold tolerance. The liver can synthesize Vitamin B3 from the essential amino acid tryptophan (see below), but the synthesis is extremely slow and requires vitamin B6; 60 mg of tryptophan are required to make one milligram of Vitamin B3. Bacteria in the gut may also perform the conversion but are inefficient.
Keywords	Nicotinamide; niacinamide; nicotinic acid amide; vitamin B3; niacin; axer; Bonyl; calosen; Equiproxen; Floginax; Laraflex; Naixan

REFERENCES

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2. Hakozaki T, Minwalla L, Zhuang J et al. (July 2002). "The effect of niacinamide on reducing cutaneous pigmentation and suppression of melanosome transfer". Br. J. Dermatol. 147 (1): 20–31.

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