Acetyl-6-formylpterin

Product number 11.418 CAS number 29769-49-1

Attention: ***6-Formylpterin is extremely sensitive to light!***
Acetyl-6-formylpterin is less sensitive to light.

5 g of finely ground 6-formylpterin are added to a mixture of 250 ml of acetic acid and 250 ml of acetic anhydride and put in a heating hood. The suspension is mixed and refluxed until almost all is dissolved (it takes about 6 hours).
The solution is filtered through a sintered disc filter funnel and the filter funnel is rinsed with 20 ml of acetic acid.
The filtrate is evaporated to about 70 g by means of a rotary evaporator.
After 2 hours the round bottom flask is set aside at 4°C overnight.
The precipitated acetyl-6-formylpterin is filtered and the filter cake is rinsed with 20 ml of cold acetic acid and dried in a vacuum desiccator over NaOH to give 4.8 g of raw acetyl-6-formylpterin.
Recrystallisation:
The recrystallisation must be done quickly, otherwise deacetylation begins.
150 ml of IPA/H2O 1:1 is heated to boiling point and the grounded raw acetyl-6-formylpterin is added and the mixture is mixed.
After about 3 minutes all is dissolved. 1.3 g of active carbon is added and mixed for 3 minutes. The active carbon is filtered out and the filtrate is cooled in an ice bath. The solution is evaporated to about 50 ml by means of a rotary evaporator and set aside at 3°C overnight.
The precipitated acetyl-6-formylpterin is filtered and the filter cake is rinsed with 20 ml of could IPA/H2O 1:1 and 20 ml of IPA and then dried in a vacuum desiccator over NaOH to give 4.4 g of acetyl-6-formylpterin.

Purity: 98.2% (HPLC)

Data Sheet: There is a data sheet available for this compound.

Data sheets can be found in the price list by clicking on the product number of your choice.