

Certificate of Analysis

| Catalog Number | BP15100 |
|----------------|----------------|
| Product Name | ETHYL CAFFEATE |

Physical and Chemical Properties

| Synonyms | ETHYL 3,4-DIHYDROXYCINNAMATE |
|--|---|
| CAS No. | 102-37-4 |
| Chemical Formula | C11H12O4 |
| Molecular Weight | 208.21 |
| Solubility | DMSO: 41 mg/mL (196.91 mM) |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |
| Chemical Structure OR Tested Image | × |

Product Information

| Description | In vitro, ECF suppressed the differentiation of naive CD4+ T cells into Th1. Furthermore, ECF intensely blocked the transcriptional expression in interferon- γ -related signaling, including IFN- γ , T-bet, STAT1, and STAT4. |
|-------------|---|
|-------------|---|

| In vitro | In vivo, ETHYL CAFFEATE(ECF) treatment reduced the severity of collagen-induced arthritis (CIA), inhibited IFN- γ and IL-6 secretion, and?decreased the proportion of CD11b+Gr-1+ splenic neutrophil.?Meanwhile, ECF treatment significantly inhibited the IFN- γ expression in CD4+T cell without obviously influencing the development of Th17 cells and T regulatory cells. |
|----------|--|
| In vivo | Shikui X , Aixue Z , Zengjun G , et al. Ethyl Caffeate Ameliorates Collagen-Induced Arthritis by Suppressing Th1 Immune Response[J]. Journal of Immunology Research, 2017, 2017:1-11. |

Analytical Data

| HPLC | Shows Min >99% purity |
|---------------------------------|--|
| H-NMR | Consistent with structure |
| Stability and Solubility Advice | Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details. |

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