

## Data Sheet

### ACC1

Human, recombinant, C-terminal FLAG, His-tag

**Catalog #:** w60213

Lot#: 120830

Conc.: 0.25 mg/ml

**Formulated in:** 50 mM Tris-HCl, pH 8.0, 500 mM NaCl, 10% Glycerol, 1 mM DTT, 100 µg/ml FLAG peptide

**Stability:** >12 months at -80 °C

#### References:

1. Sinilnikova, O.M. *et al.*, *Cancer Epidemiol. Biomarkers Prev.* **16** (3), 409-415 (2007)
2. Olsen, J.V. *et al.*, *Cell* **127** (3), 635-648 (2006)

**Description:** Human ACC1 (acetyl-Coenzyme A carboxylase alpha transcript variant 1) (GenBank Accession No. NM\_198834), amino acids 1–2383(end) with C-terminal FLAG and His-tags, MW = 271 kDa, expressed in Baculovirus infected Sf9 cell expression system.

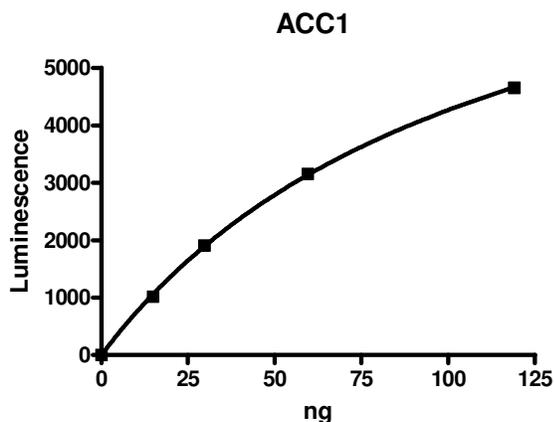
**Specific Activity:** 42.5 pmol/min/µg.

A 25 µl ACC1 reaction is conducted in a buffer containing 30 mM HEPES (pH 7.4), 2 mM MgCl<sub>2</sub>, 2 mM potassium citrate, 1 mM DTT, 100 µM ATP, 12mM NaHCO<sub>3</sub> and 20 µM acetyl-CoA at 30°C for 45 min. ATP reduction is detected using ADP-Glo<sup>®</sup> Luminescent Assay Platform (Promega).

**Application:** Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

## Quality Assurance

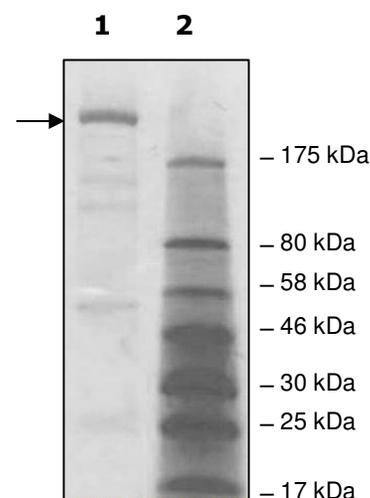
### Specific Activity



### 4-20% SDS-PAGE Coomassie staining

**Lane 1:** 2 µg ACC1  
**Lane 2:** Protein Marker

**MW:** 270 kDa  
**Purity:** ≥70%



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**Amino Acid Sequence:**

MWWSTLMSILRARSFWKWISTQTVRIIRAVRAHFGGIMDEPSPLAQPLELNQHSRFIGS  
VSEDNSEDEISNLVKLDLLEEKEGSLSPASVGSDTLSDLGISSLQDGLALHIRSSMSGHLH  
LVKQGRDRKKIDSQRDFTVASPAEFVTRFVGGNKVIEKVLIANNGIAAVKCMRSIRRSY  
EMFRNERAIRFVVMVTPEDLKANA EYIKMADHYVPVPGGPNNNNYANVELILDIKRIPV  
QAVWAGWGHASENPKLPELLLNKNGIAFMGPPSQAMWALGDKIASSIVAQTAGIPTLPW  
SGSGLRVDWQENDFSKRILNVPQELYEKGYVKDVDDGLQAAEEVGYPMIKASEGGG  
GKGIRKVNADDPNLFRQVQAEVPGSPIFVMRLAKQSRHLEVQILADQYGNALSLFGR  
DCSVQRRHQKIIIEAPATIATPAVFEHMEQCAVKLAKMVGYSAGTVEYLYSQDGSFYF  
LELNPRQLQVEHPCTEMVADVNLPA AQLQIAMGIPLYRIKDIRMMYGVSPWGDSPIDFED  
SAHVPCPRGHVIAARITSENPDGFKPSSGTVQELNFRSNKNVWGYFSVAAAGGLHEF  
ADSQFGHCFSWGENREEAISNMVVALKELSIRGDFRTTVEYLIKLETESFQMNRIDTG  
WLDRLIAEKVQAERPDTMLGVVCGALHVADVSLRNSVSNFLHSLERGGVLP AHTLLNT  
VDVELIYEGVKYVVKVTRQSPNSYVIMNGSCVEVDVHRLSDGGLLLSYDGSSTYTMK  
EEVDYRITIGNKTCVFEKENDPSVMRSPSAGKLIQYIVEDGGHVFAGQCYAEIEVMKMV  
MTLTAVESGCIHYVKRPGAALDPGCVLAKMQLDNPSKVQQAELHTGSLPRIQSTALRG  
EKLHRVHFHYLDNLVNMNGYCLPDPFFSSKVKDWVERLMKTLRDPSPLELQDIMIT  
SVSGRIPPVVEKSIKEMAQYASNITSVLCQFPSQQIANILDSHAATLNRKSEREVFFMN  
TQSIVQLVQRYRSGIRGHMKAVVMDLLRQYLRVETQFQNGHYDKCVFALREENKSDMN  
TVLNYIFSHAQVTKNLLVTMLIDQLCGRDPTLTDELLNITELTQLSKTTNAKVALRAR  
QVLIASHLPSYELRHNQVESIFLSAIDMYGHQFCIENLQKLILSETSIFDVLNFFYHSNQV  
VRMAALEVYVRRAYIAYELNSVQHRQLKDNTCVVEFQFMLPTSHPNRGNIPTLNRMFSFS  
SNLNHYGMTHVASVSDVLLDNSFTPPCQRMGGMVSFRTFEDFVRIFDEVMGCFSDSP  
QSPTPEAGHTSLYDEDKVPREPIHILNVAIKTDCDIEDDRLAAMFREFTQQNKATLVD  
HGIRRLTFLVAQKDFRKQVNYEVDRRFHREFPKFFTFRARDKFEEDRIYRHLEPALAFQ  
LELNRMRNFDLTAIPCANHKMHLYLGA AKVEVGTEVTDYRFFVRAIRHSDLVTKEASFE  
YLQNEGERLLLEAMDELEVAFNNTNVRTDCNHIFLNFVPTVIMDPSKIEESVRSMVMRY  
GSRLWKLRLVLAELKINIRLTPTGKAIPIRLFLTNESGYLDISLYKEVTD SRTAQIMFQA  
YGDKQGPHLHGMLINTPYVTKDLLQSKRFQAQSLGTTYIYDIPEMFRQSLIKLWESMSTQ  
AFLPSPPLPSDMLTYTELVLDDQGQLVHMNRLPGGNEIGMVAWKMTFKSPEYPEGRDII  
VIGNDITYRIGSFGPQEDLLFLRASELARAEGIPRIYVSANS GARIGLAE EIRHMFHVAVW  
DPEDPYKGYRYLYLTPQDYKRVSALNSVHCEHVEDEGESRYKITDIIGKEEGIPENLRG  
SGMIAGESSLAYNEIITISLVT CRAIGIGAYLVRLGQRTIQVENSHLILT GAGALNKVLGRE  
VYTSNNQLGGI QIMHNNGVTHCTVCDDFEGVFTVLHWLSYMPKSVHSSVPLLNSKDPID  
RIIEFVPTKTPYDPRWMLAGRPHPTQKGQWLSGFFDYGSFSEIMQPWAQTVVVGRRARL  
GGIPVGVAVETRVELSIPADPANLDSEAKIIQQAGQVWFPSAFKTYQAIKDFNREGL  
PLMV FANWRGFGSGMKDMYDQVLKFGAYIVDGLRECCQPVLVYIPPAELRGGSWVVI  
DSSINPRHMEMYADRESRGSVLEPEGTVEIKFRRKDLVKTMR RVDVPIYIHLAERLGTPE  
LSTAERKELENK LKEREEFLIPIYHQVAVQFADLHDT PGRMQEKGVISDILDWKT SRTFF  
YWRLRRLLEDLVKKKIHNANPELTDGQIQAMLR RWFVEVEGTVKAYVWDNNKDLAE  
WLEKQLTEEDGVHSVIEENIKCISR DYVLKQIRSLVQANPEVAMDSIIHMTQHISPTQRAE  
VIRILSTMDSPSTDYKDDDDKHHHHHH

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